

# Dodge Performance Enthusiast Assessment (SS21DPWB) Practice Test (Sample)

## Study Guide



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**SAMPLE**

## **Questions**

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- 1. How do headers improve vehicle performance?**
  - A. Increase air intake**
  - B. Increase exhaust flow and balance exhaust pulses**
  - C. Reduce engine weight**
  - D. Enhance fuel efficiency**
- 2. What defines the allure of high-performance vehicles in general?**
  - A. Their low cost**
  - B. The exclusivity and unique engineering behind them**
  - C. Their basic functionality as everyday cars**
  - D. Their focus on passenger comfort over speed**
- 3. What feature of the 2021 Dodge Charger SRT Hellcat's hood scoop helps keep the engine cool?**
  - A. Single Extractor**
  - B. Dual Extractors**
  - C. Hood Vents**
  - D. Heat Shields**
- 4. What is the role of an automatic transmission in performance driving?**
  - A. It provides better fuel economy than manual**
  - B. It offers quicker shifts and better performance compared to a manual transmission**
  - C. It limits the car's speed for safety**
  - D. It allows for smoother gear transitions in everyday driving**
- 5. What is a characteristic feature of the adaptive damping SRT-tuned Bilstein suspension?**
  - A. It requires manual adjustment**
  - B. It offers multiple performance settings**
  - C. It is standard across all models**
  - D. It cannot be adjusted during driving**

- 6. What is one major benefit of tuning a Dodge vehicle's engine?**
- A. Decreased emissions**
  - B. Lower insurance premiums**
  - C. Improved throttle response**
  - D. Increased weight**
- 7. Which Dodge model has historically competed in NASCAR?**
- A. Dodge Ram**
  - B. Dodge Durango**
  - C. Dodge Charger and Challenger**
  - D. Dodge Neon**
- 8. The 2021 Dodge Charger SRT Hellcat Redeye Widebody features a top speed of what?**
- A. 190 MPH**
  - B. 203 MPH**
  - C. 220 MPH**
  - D. 210 MPH**
- 9. What is one effect of installing a performance chip?**
- A. Decreased engine responsiveness**
  - B. Stricter emissions control**
  - C. Revised fuel maps for better performance**
  - D. Standardized factory settings**
- 10. What is a key factor in evaluating the performance capabilities of tires like the 305/35XR20?**
- A. FRICTION RATING**
  - B. LOAD INDEX**
  - C. AQUAPLANING RESISTANCE**
  - D. RESPONSE TIME**

## **Answers**

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1. B
2. B
3. B
4. B
5. B
6. C
7. C
8. B
9. C
10. B

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## **Explanations**

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## 1. How do headers improve vehicle performance?

- A. Increase air intake
- B. Increase exhaust flow and balance exhaust pulses**
- C. Reduce engine weight
- D. Enhance fuel efficiency

Headers are specialized exhaust components that significantly improve vehicle performance by enhancing exhaust flow and balancing exhaust pulses. When a vehicle's engine operates, it produces exhaust gases that need to be efficiently expelled to maximize power output. Headers replace the factory exhaust manifold, which can often restrict flow due to design limitations. By using larger diameter tubing and a more streamlined design, headers facilitate a smoother and quicker pathway for exhaust gases to exit the engine. This improved flow reduces back pressure, allowing the engine to breathe better, which in turn increases performance by allowing for more complete combustion of fuel. Furthermore, well-designed headers can help balance exhaust pulses, which can enhance scavenging - the process where incoming air and fuel mixture gets drawn into the cylinders more effectively. This leads to improved engine efficiency and power. The other options, while related to vehicle performance in various ways, do not accurately describe the primary role of headers. For instance, increasing air intake is typically managed through intake systems, while reducing engine weight pertains more to the material used in vehicle construction rather than exhaust components. Enhancing fuel efficiency can be a secondary benefit of the overall improvement in engine performance associated with headers, but the most direct and significant effect they have is on exhaust flow and pulse balancing.

## 2. What defines the allure of high-performance vehicles in general?

- A. Their low cost
- B. The exclusivity and unique engineering behind them**
- C. Their basic functionality as everyday cars
- D. Their focus on passenger comfort over speed

The allure of high-performance vehicles primarily stems from their exclusivity and the unique engineering that goes into their design and performance capabilities. These vehicles are often built with advanced technologies, materials, and engineering practices that set them apart from standard automobiles. Enthusiasts are drawn to the idea of owning something that not only offers superior speed, acceleration, and handling but also represents a level of craftsmanship that is often not found in mass-market cars. This exclusivity can also provide a sense of prestige and identity for owners, as high-performance vehicles often come with a high price tag and a specific brand image that appeals to those seeking uniqueness. The thrill of driving a vehicle that has been crafted with precision and performance in mind adds to its allure, making these cars not just modes of transportation but symbols of automotive excellence and passion. Other options do not capture the essence of what defines the attraction of high-performance vehicles. Low cost does not typically apply, as these cars are usually high-end and expensive. Basic functionality as everyday cars is also contrary to the appeal, since performance vehicles are not primarily designed for day-to-day usability but rather for enhancing the driving experience. Furthermore, the focus on passenger comfort over speed runs counter to the core principles of high-performance vehicles, which prioritize performance.

**3. What feature of the 2021 Dodge Charger SRT Hellcat's hood scoop helps keep the engine cool?**

- A. Single Extractor**
- B. Dual Extractors**
- C. Hood Vents**
- D. Heat Shields**

The feature that helps keep the engine cool in the 2021 Dodge Charger SRT Hellcat's hood scoop is the dual extractors. These extractors are designed to maximize airflow through the engine compartment, promoting efficient cooling by allowing hot air that accumulates in this area to escape. By expelling the hot air, the dual extractors work in conjunction with the hood scoop to ensure that cooler air is drawn into the engine, which is vital for maintaining optimal operating temperature, particularly during high-performance driving scenarios. This design not only improves thermal management but also contributes to the overall performance of the vehicle, allowing for better power delivery and engine efficiency. The integration of dual extractors is key in enhancing both the cooling process and the aerodynamic profile of the car, making it a critical feature for the performance-focused Charger SRT Hellcat.

**4. What is the role of an automatic transmission in performance driving?**

- A. It provides better fuel economy than manual**
- B. It offers quicker shifts and better performance compared to a manual transmission**
- C. It limits the car's speed for safety**
- D. It allows for smoother gear transitions in everyday driving**

An automatic transmission plays a significant role in performance driving by offering quicker shifts and better overall performance compared to a manual transmission. This is particularly important in high-performance scenarios where acceleration and power delivery are critical. Automatic transmissions, especially those designed for performance vehicles, utilize advanced technology such as dual-clutch systems or torque converters that can change gears faster than a human can manually shift a traditional gearbox. In performance driving, the ability to shift gears rapidly without losing momentum can lead to improved lap times and enhanced vehicle responsiveness. This seamless operation allows the driver to focus on controlling the vehicle and navigating the road or track rather than managing gear changes, which can be vital during high-stress driving conditions. While some automatic transmissions, especially those in high-performance cars, can outperform manuals in terms of shift speed, there are also everyday driving benefits and constraints associated with automatic systems. The effectiveness of an automatic transmission in performance driving highlights why this technology is often the preferred choice in contemporary performance vehicles.

**5. What is a characteristic feature of the adaptive damping SRT-tuned Bilstein suspension?**

- A. It requires manual adjustment**
- B. It offers multiple performance settings**
- C. It is standard across all models**
- D. It cannot be adjusted during driving**

The adaptive damping SRT-tuned Bilstein suspension is designed to enhance vehicle performance by adjusting the damping characteristics in real-time based on driving conditions and driver input. This system provides multiple performance settings, allowing drivers to tailor the suspension's behavior to their preferences or specific driving scenarios, such as normal driving, sporty handling, or track performance. This adaptability helps maintain optimal ride quality and stability, enhancing the overall driving experience. The other options do not accurately reflect the nature of the adaptive damping system. For instance, while some systems might require manual adjustments, the SRT-tuned Bilstein suspension is designed to automatically adapt. It also isn't standard across all models, as it is specifically tuned for certain high-performance vehicles. Finally, the ability to adjust the damping characteristics on the fly means adjustments can indeed occur during driving, which is contrary to the idea that it cannot be adjusted at that time.

**6. What is one major benefit of tuning a Dodge vehicle's engine?**

- A. Decreased emissions**
- B. Lower insurance premiums**
- C. Improved throttle response**
- D. Increased weight**

Improving throttle response is a significant benefit of tuning a Dodge vehicle's engine. When an engine is tuned, the vehicle's performance parameters are optimized, which can lead to a more immediate and responsive acceleration when the driver presses the throttle. This is often achieved by adjusting air-fuel ratios, ignition timing, and other engine management parameters to ensure that the engine operates more effectively and efficiently. A tuned engine can provide a more engaging driving experience, as the vehicle will react more quickly to driver inputs. This is particularly appreciated in performance vehicles where responsive handling and acceleration are key to the driving experience. The enhancement of throttle response can also contribute to better overall performance, making the vehicle feel more lively and enjoyable to drive, which aligns with the goals of many Dodge performance enthusiasts. While tuning can have secondary benefits, such as marginally decreasing emissions and potentially impacting insurance premiums based on performance ratings, the primary and most noticeable effect felt by drivers is the immediate improvement in throttle response. It's important for enthusiasts to recognize that tuning should be done carefully, and ideally by professionals, to maximize benefits while ensuring engine reliability.

**7. Which Dodge model has historically competed in NASCAR?**

- A. Dodge Ram**
- B. Dodge Durango**
- C. Dodge Charger and Challenger**
- D. Dodge Neon**

The Dodge Charger and Challenger have a notable history in NASCAR, embodying the brand's commitment to performance and racing. These models have been part of Dodge's racing legacy since the late 1960s and have evolved over time to fit within the guidelines of stock car racing. Both vehicles not only represent the muscle car ethos but also served as platforms for Dodge to showcase its engineering prowess on the track. The Charger was prominently used in the NASCAR circuit during its heyday, particularly in the late 60s and early 70s, while the Challenger made its mark more recently, returning to NASCAR in its updated form. Their design, performance specs, and specifications have been tailored to meet the demands of competitive racing, making them a significant part of Dodge's heritage. In contrast, models like the Dodge Ram, Durango, and Neon are not associated with NASCAR in the same way. The Ram is a heavy-duty truck focused on utility; the Durango is an SUV designed for family use and comfort; and the Neon, while it had some involvement in motorsports, was not a primary contender in NASCAR. Thus, the Charger and Challenger are the most historically relevant models for competition in NASCAR, solidifying their place in Dodge's racing lineage.

**8. The 2021 Dodge Charger SRT Hellcat Redeye Widebody features a top speed of what?**

- A. 190 MPH**
- B. 203 MPH**
- C. 220 MPH**
- D. 210 MPH**

The 2021 Dodge Charger SRT Hellcat Redeye Widebody boasts an impressive top speed of 203 MPH, which solidifies its position as one of the fastest sedans available. This extraordinary performance is largely attributed to its powerful supercharged 6.2-liter HEMI V8 engine, which produces a staggering 797 horsepower. Engineering advancements and specialized performance enhancements in the Redeye variant contribute to its ability to reach this high-speed threshold. The aerodynamics of the Widebody design also play a crucial role in maintaining stability and control at these elevated speeds, allowing it to achieve optimal performance on both the track and the open road. This combination of power, design, and engineering excellence makes the top speed of 203 MPH the correct answer.

**9. What is one effect of installing a performance chip?**

- A. Decreased engine responsiveness**
- B. Stricter emissions control**
- C. Revised fuel maps for better performance**
- D. Standardized factory settings**

Installing a performance chip often results in revised fuel maps, which are crucial for optimizing engine performance. These chips modify the vehicle's electronic control unit (ECU) settings to adjust fuel delivery based on engine demands, leading to improved throttle response and overall power output. This enhancement allows for more precision in fuel-air mixtures, which can significantly enhance performance aspects such as acceleration and power while still maintaining fuel efficiency under certain conditions. By optimizing fuel maps, performance chips help ensure that the engine operates at its best, which is especially beneficial for drivers looking to maximize their vehicle's capabilities. This adjustment contrasts with factory settings that prioritize emissions and fuel economy over performance, further highlighting the advantages gained from a performance chip installation.

**10. What is a key factor in evaluating the performance capabilities of tires like the 305/35XR20?**

- A. FRICTION RATING**
- B. LOAD INDEX**
- C. AQUAPLANING RESISTANCE**
- D. RESPONSE TIME**

The load index is a key factor in evaluating the performance capabilities of tires such as the 305/35ZR20. This index is a numerical value that indicates the maximum load a tire can safely carry when properly inflated. Knowing the load index helps ensure that a tire is suitable for the weight it needs to support, whether it's a vehicle with a high-performance profile or regular passenger usage. This is particularly important for performance tires, as exceeding the load capacity can compromise handling, safety, and overall tire lifespan. Proper evaluation of the load index also plays a critical role in suspension tuning and overall vehicle dynamics. It aids enthusiasts and professionals in choosing tires that match their vehicle's specifications and performance needs, ensuring optimal handling and stability, which are essential for high-performance driving situations. Understanding this figure is vital for enthusiasts looking to maximize their vehicle's performance capabilities and ensure safety during operation.