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› ARP 194-2101 Intake Manifold Bolt Kit Instruction Manual

ARP 194-2101

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INTRODUCTION

This manual provides essential instructions for the proper installation and maintenance of the ARP 194-2101 Intake Manifold Bolt Kit. Adhering to these guidelines will ensure optimal performance and longevity of your engine components. Please read all instructions carefully before proceeding with installation.

PRODUCT OVERVIEW

The ARP 194-2101 Intake Manifold Bolt Kit is designed for Pontiac 350-400 engines. This kit includes high-quality, professional-grade 12-point fasteners engineered for superior clamping force and reliability in demanding automotive applications.



Figure 1: ARP 194-2101 Intake Manifold Bolt Kit. This image displays the retail packaging of the ARP 194-2101 Intake Manifold Bolt Kit. The kit contains multiple black 12-point bolts specifically manufactured for securing the intake manifold on Pontiac 350-400 engines. The packaging highlights the ARP brand and product identification.

INSTALLATION INSTRUCTIONS

Proper installation of intake manifold bolts is crucial for preventing vacuum leaks and ensuring engine performance. Follow these steps carefully:

1. **Preparation:** Ensure all mating surfaces on the cylinder heads and intake manifold are clean, dry, and free from old gasket material or debris. Inspect bolt holes for any obstructions or damaged threads.

2. **Gasket Placement:** Position the new intake manifold gaskets correctly on the cylinder heads.
3. **Manifold Placement:** Carefully lower the intake manifold onto the gaskets and cylinder heads, ensuring proper alignment.
4. **Bolt Installation:** Insert the ARP 12-point intake manifold bolts into their respective holes. Hand-tighten all bolts until they are snug.
5. **Torque Sequence:** Refer to your vehicle's specific service manual for the correct intake manifold bolt tightening sequence. This sequence is critical for even clamping pressure and preventing manifold distortion.
6. **Torque Specification:** Using a calibrated torque wrench, tighten the bolts in the specified sequence to the manufacturer's recommended torque specification for your Pontiac 350-400 engine. It is often recommended to perform this in several stages (e.g., 25%, 50%, 100% of final torque).
7. **Final Check:** After torquing, double-check all bolts to ensure they are tightened to specification.

Important: Always use a high-quality thread lubricant or sealant as recommended by your engine manufacturer or ARP for optimal torque accuracy and corrosion prevention.

OPERATION CONSIDERATIONS

Once installed correctly, the ARP intake manifold bolts contribute to the secure fastening of the intake manifold, which is vital for the proper functioning of the engine's air and fuel delivery system. Incorrect installation can lead to vacuum leaks, poor engine performance, and potential damage. These bolts are designed for a specific application and should not be used for other purposes.

MAINTENANCE

ARP fasteners are designed for durability. Regular maintenance typically involves periodic inspection of the intake manifold area for any signs of leaks or loose connections. While re-torquing is generally not required after initial proper installation, it may be considered during other engine service procedures. Always follow your vehicle manufacturer's recommendations for engine maintenance.

TROUBLESHOOTING

If issues arise after installation, consider the following:

- **Vacuum Leaks:** If the engine exhibits rough idle, misfires, or poor performance, a vacuum leak at the intake manifold could be the cause. Re-check bolt torque and manifold seating.
- **Stripped Threads:** Over-torquing or improper thread engagement can strip bolt holes. If this occurs, specialized thread repair (e.g., helicoil) or component replacement may be necessary. Always use a torque wrench.
- **Loose Bolts:** Ensure all bolts are torqued to specification. Loose bolts can lead to manifold movement and gasket failure.

SPECIFICATIONS

Model Number	194-2101
Application	Pontiac 350-400 Intake Manifold

Bolt Type	12-Point Fasteners
Material	High-Strength Alloy (ARP Quality)
Kit Contents	Complete set of intake manifold bolts for specified application

WARRANTY AND SUPPORT

For specific warranty information regarding the ARP 194-2101 Intake Manifold Bolt Kit, please refer to the official ARP website or contact an authorized ARP dealer. ARP stands behind the quality of its products. For technical support or further assistance, please consult ARP's official resources.