



## INSTALLATION INSTRUCTIONS

MAKE: Jeep  
MODEL: Wrangler JK  
YEAR: 07-11  
ENGINE: V6-3.8L

## BladeRunner Ported Ductile Iron Manifolds 46-40114



### Parts Included:

- Manifold Left (05-60722)
- Manifold Right (05-60723)
- Studs x4 (05-60300)
- Nuts x4 (03-50189)

### Tools Needed:

- 3/8" drive ratchet
- 3/8" X 12" extension
- 10mm socket & wrench
- 14mm socket & wrench
- 15mm socket & wrench
- 17mm socket & wrench
- Spark plug socket

**CAUTION:** Allow time for your vehicle to cool down prior to installation. When working on or under your vehicle proceed with caution. Exhaust systems reach high temperatures and may cause serious burns. Wear protective safety equipment; eye goggles and gloves to ensure a safe installation. aFe recommends professional installation on our products.

**NOTE:** aFe recommends replacement of old gaskets (not supplied). Factory gasket part number: 4892409AA

1. Disconnect the negative battery terminal before starting work.
2. Remove right and left side inner fender splash guards.
3. Remove right and left side bolts from the down pipe to the stock manifolds.
4. Disconnect spark plug wires and remove spark plugs (be sure to mark spark plug wires so they can be installed in the correct order).
5. Remove the right side exhaust manifold heat shield.
6. Remove the right side exhaust manifold (manifold can be removed from under the wheel well).
7. Remove the right side exhaust manifold gasket.
8. Remove the left side exhaust manifold heat shield.
9. Remove the left side exhaust manifold (manifold can be removed from under the wheel well).
10. Remove the left side exhaust manifold gasket.

**NOTE: Right and left side aFe manifolds are installed from under the fender well opening.**

11. Install a new gasket with the supplied right side aFe manifold using the original bolts. Tighten the manifold starting with the middle bolt, working outwards. Torque the mounting screws to 16-20 ft.-lbs.
12. Install a new gasket with the supplied left side aFe manifold using the original bolts. Tighten the manifold starting with the middle bolt, working outwards. Torque the mounting screws to 16-20 ft.-lbs.
13. Install the right side down pipe using two (2) of the supplied studs and nuts.
14. Install the left side down pipe using two (2) of the supplied studs and nuts.
15. Install spark plugs then reconnect spark plug wires back into their original location.

**NOTE: Make sure spark wires are NOT in direct contact with the manifolds. Adjust spark plug wires to give adequate clearance.**

16. Install the right and left inner fender splash guards.
17. Reconnect the negative battery terminal.
18. RE-CHECK ALL YOUR WORK.