advanced FLOW engineering

Instruction Manual P/N: 46-52121

BladeRunner – Street Series Radiator
Make: **TOYOTA** Model: **4Runner** Year: **2003-2009** Engine: **V6 – 4.0L**
Make: **TOYOTA** Model: **FJ Cruiser** Year: **2007-2014** Engine: **V6 – 4.0L**

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- Please read the entire instruction manual before proceeding.
- Ensure all components listed are present.
- If you are missing any of the components, call customer support.
- Ensure you have all necessary tools before proceeding.
- Ensure that your vehicle is cooled off before proceeding.
- Retain factory parts for future use.

Label	Qty.	Description
A	1	Radiator
B	1	Cap, Radiator
C	1	Valve, Drain
D	1	Fitting, Coolant Over-Flow Barb
E	2	Fitting, Transmission
F	5	Washer, M6
G	5	Screw, M6x1.0

A

B C D E F G

1. Park vehicle on level ground and engage the parking brake.

2. Disconnect the negative battery cable.

3. Remove plastic plug on skid plate.

4. Open the petcock and begin draining the coolant.

5. Remove the radiator cap and drain the remainder of coolant from the system.

Note: Step 6 is only for Toyota 4Runner

6. Remove the clips securing the plastic cover to the top of the radiator and core support and remove the cover from the vehicle.

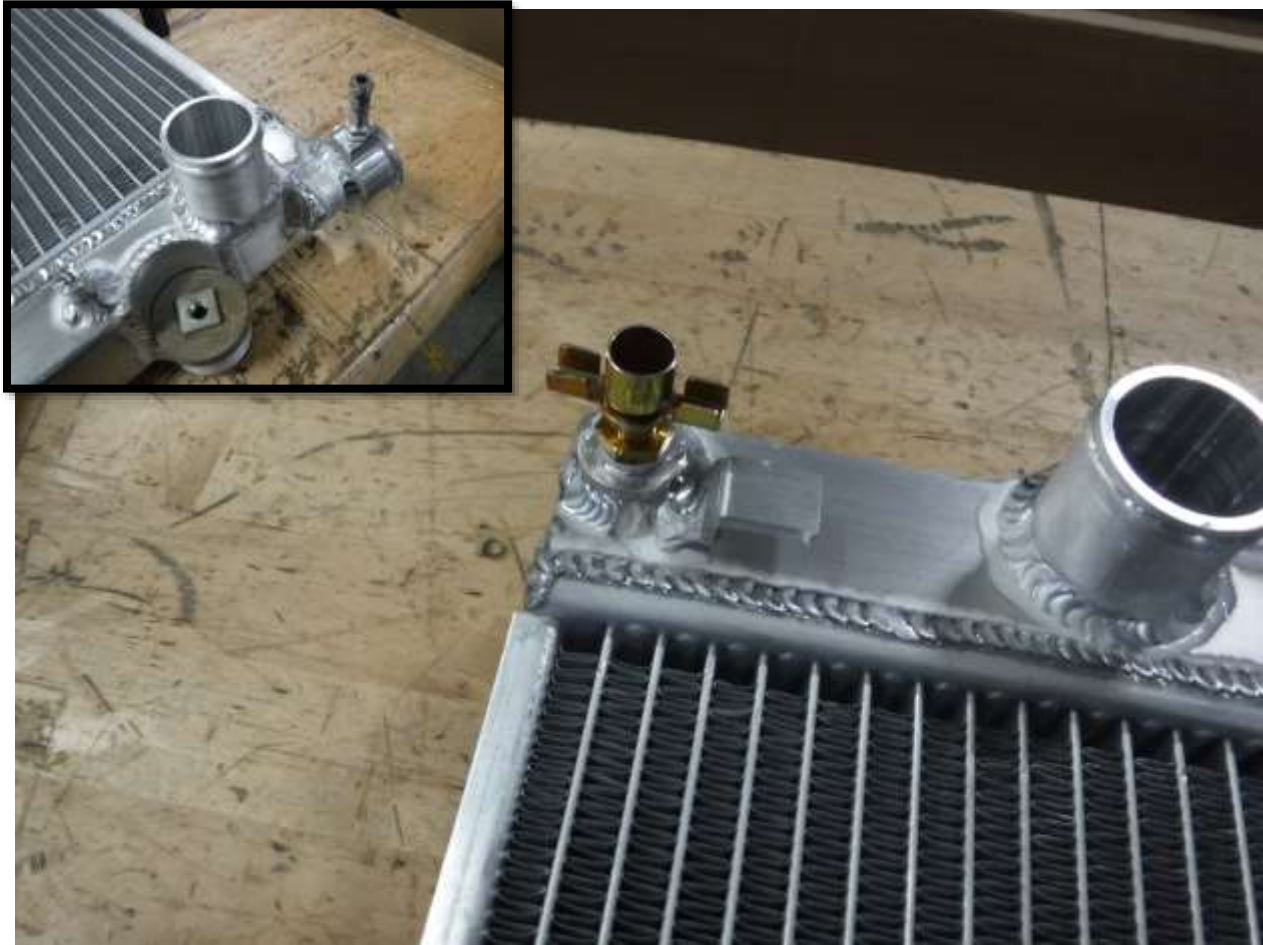*Note: Steps 7-10 For Toyota FJ Cruiser Only*

7. Remove the clips securing plastic cover onto radiator and core support and remove cover from the vehicle.

8. Remove the four (4) screws securing the top of the grille to the vehicle.

9. Release the lower clips securing the bottom of the grille to the bumper.

10. Remove the grille from the vehicle.

11. Disconnect the coolant overflow hose from the radiator.

12. Disconnect the upper and lower radiator hoses from the radiator.

13. Disconnect the transmission cooler lines from the radiator.

14. Remove the three (3) screws securing the radiator overflow tank to the radiator fan shroud and remove the overflow tank from the vehicle.

15. Remove the two (2) screws securing the radiator fan to the radiator.

16. Lift the radiator fan shroud up out of the lower mounts and push it back and out of the way.

17. Remove the four (4) bolts securing the radiator to the vehicle, the lower two (2) bolts can be seen through the lower grill and removed from there.

18. Lift the radiator up and out of the vehicle.

19. Install the two (2) supplied transmission fittings onto the threaded ports on the back of the supplied aFe radiator.

Note: Be sure to use thread sealant on the supplied drain valve and breather fitting to prevent any leaking.

20. Install the drain valve onto the threaded port on the back of the aFe radiator.

21. Install the breather fitting onto the threaded port on the aFe radiator.

Note: Be sure to install the mounting grommets in the same spot and orientation they were removed from the factory radiator.

22. Transfer the mounting grommets from the factory radiator to the aFe radiator.

23. Install the aFe radiator into the vehicle.

24. Secure the radiator to the vehicle using the factory bolts.

25. Install the radiator fan shroud into the lower mounts on the radiator and secure it to the aFe radiator using the two (2) supplied M6x1.0 screws and washers.

26. Install the coolant overflow tank into the vehicle and secure it with three (3) M6x1.0 screws and washers.

27. Connect the transmission cooler lines to the fittings on the aFe radiator.

28. Connect the upper and lower radiator hoses to the aFe radiator.

29. Connect the coolant overflow hose to the radiator.

30. Reinstall grille onto the vehicle, if removed.

31. Use the proper coolant refill procedure to be sure that all the air gets out of the system when refilling the coolant.

32. Fill the coolant overflow bottle to the max line.

33. Reconnect the negative battery cable.

34. Test drive the vehicle.

35. Use the proper procedure to check the transmission fluid level, top off if needed.

36. Let the vehicle cool down then check coolant levels. Top off coolant if needed.

37. Install is now complete!

Note: Be sure to check all connections after 50-100 miles.

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