

MAN-A-FRE

OFF-ROAD SOLUTIONS

121 Corporate Park Dr. Henderson, NV 89074

P: 702-500-5986 - Sales@manafrelv.com

PART #:	17100-40ST
MANAFRE F & 2F ENGINE TUNED CERAMIC HEADERS	



PARTS INCLUDED	
QUANTITY	DESCRIPTION
1	HEADER ASSEMBLY
1	EGR EXHAUST GASKET
1	HEADER GASKET
4	3/18"-16 X 2.5" HEX CAP SCREW
8	M10 FLAT WASHER
4	3/8"-16 LOCK NUT
1	EGR BLOCK OFF PLATE

Thank you for your purchase! MANAFRE has put together these complete instructions for the product described above. If there are any concerns or questions please feel free to contact us. If there any inconsistencies within the procedures or parts please notify us so that way we may make the appropriate adjustments.

- 1 Disconnect negative terminal from your vehicle's battery.
- 2 Remove air cleaner assembly and associated hoses.
- 3 Disconnect throttle linkage and choke cable/wire to carburetor.
- 4 Disconnect fuel lines to carburetor.
- 5 Disconnect vacuum hoses from intake manifold and carburetor.
- 6 Unbolt and remove carburetor from intake manifold.
- 7 Disconnect and remove connecting pipe from bottom of exhaust manifold to catalytic converter or muffler.
- 8 Unbolt manifold assembly from cylinder head and remove.
- 9 Unbolt and remove EGR system from manifolds.
- 10 Remove bolts holding intake manifold to exhaust manifold and separate.
- 11 Clean and inspect intake manifold.
 - 11a. Inspect for flatness at gasket surface to cylinder head. If surface is not flat, we suggest having manifold or head resurfaced at a reputable machine shop.
 - 11b. Inspect interior of manifold under mounting flange of carburetor for cracks. If cracked, recommended to replace or have TIG welded prior to resurfacing.
- 12 Clean cylinder head at gasket surface.
- 13 Install new manifold gasket to cylinder head. Install header and intake manifold assembly after gasket, following Factory install instructions only starting nuts and bolts to leave loose for adjustment.

Note: It may be required to file intake manifold and header assembly contact points for proper fitment and gasket seal. New manifold to cylinder head factory hardware may be required for install.
- 14 Install Y-Pipe to headers hand tight to allow for adjustment.
- 15 Torque header and manifold nuts and bolts to Factory torque specs.
- 16 Torque connecting Y-Pipe to headers to Factory torque specifications.
- 17 If retaining EGR system re-install as it was removed. If not, install supplied block off plate.
- 18 Install carburetor, fuel lines, linkage, wiring, and vacuum lines that are being retained to Factory specifications.
- 19 Install Air cleaner assembly as it was removed.
- 20 Reconnect negative battery cable. Start vehicle and inspect all associated components to headers for leaks. Test drive vehicle. Let vehicle cool completely and re-torque all associated hardware to install.

Note: We recommend applying all of Toyota's factory torque specifications for installing this product associated to the year of your vehicle.

BILL OF MATERIALS

