



Installation Instructions for Dart Intake Manifolds



Dart BBC 8.1L Manifold

Specifications: Material:
Cast Aluminum RPM Range:
Off idle - 6,500
Deck Height: Standard
Plenum Height: 6.375"
Garb Flange: 4150
Port Dimensions: 3.170" H X 1.400" W
Injector Provision: Yes (Not machined)
Gasket Part Number: Fel Pro# QMS96057

Description:

Dart 8.1L dual plane manifolds are designed for street, strip and light industrial applications. They feature long intake runners and raised plenum for off idle performance up to 6,500 rpm.

Dart Machinery
248-362-1188



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Important!

Improper installation may result in low mileage, poor performance and may require re-installation!

Preliminary Steps:

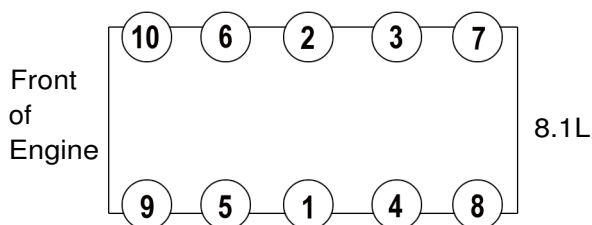
- Thoroughly read and review instruction sheet
- Inspect manifold for possible shipping damage, in the event of damage contact your dealer immediately
- Check all threaded holes
- Check all internal passages with a light and a wire, make sure they are clean and unobstructed
- Clean all contact surfaces

Important Note

To prevent gasket pieces from falling into ports and valley when cleaning old gaskets from head surfaces, seal off the ports and the lifter valley. After cleaning remove all remaining particles before unsealing. Wipe surfaces with alcohol to remove oil or grease. This precaution will ensure proper gasket sealing.

Procedures for Installation of Manifold:

1. Use teflon tape or PST thread sealer, install fittings, pipe plugs and carburetor studs from your stock manifold. Do not over-tighten as damaged threads or a cracked mounting boss may result.
2. Apply a thin coat of spray adhesive to the cylinder head intake gasket surface. Carefully lay the gasket in place, aligning all ports and bolt holes.
3. Apply a bead of oil resistant RTV silicone approximately 1/4" wide to the front and rear block sealing surfaces. Make sure to overlap manifold gaskets at all four corners. Do not use cork or rubber gaskets. In some cases there may be right and left specific gaskets, be sure that the gaskets are placed correctly.
4. Position your intake manifold on the engine, making sure that all bolt holes are centered. Re-check gasket placement if manifold must be moved.
5. Install intake bolts, ensure that bolts are not bottoming out. Apply RTV silicone or teflon tape to threads where exposed to water, oil, or engine vacuum. Torque bolts in sequence as shown in the diagram below to 50 in/lbs, then torque again to 106 in/lbs. Finish by torquing to 106 in/lbs again after engine is to temperature.



Troubleshooting: Causes of poor mileage and performance

1. Incorrect selection of manifold for engine application.
2. Incorrect carburetor choice.
3. Re-curving distributor curves when not recommended.
4. Incorrect automatic choke setting.
5. Failure to adjust automatic transmission shift point when necessary.
6. Vacuum leaks due to cracked lines, faulty seals, manifold gaskets, bolts, pipe plugs or carburetor gaskets.
7. Failure to set timing to spec with timing light.
8. Failure to replace plugs, wire, points or to rebuild carburetor when necessary.
9. Dirty air cleaner elements.