

Notes on the Carb Kits



The Enhanced Carb Kit with Tools & All Balls Carb Rebuild Kit Contains:

- The All Balls Carb Rebuild kit
- Enhanced carb kit additional 43 parts
- K&L Float Bowl Needle Valves.
- Foreign Material Exclusion Plugs for the Intakes when the carbs are removed.
- Test Tubing Kit
- Bowl Leak Test Plate
- Bearing Removal Tool Kit
- Bearing Insertion Tool Kit

New Carb parts – 167 total

All Balls Carb Rebuild Kit -118 parts

- ACV nose O-rings __6
- Air Cut Valve jets O-rings __12
- Air Horn Gaskets__6
- Air Rail Tee O-rings __4

- Air Rail Tube O-rings __ 4
- Bowl Drain Screw O-rings __ 6
- Bowl gaskets __ 6
- Bowl screws __ 18
- Fuel rail tee O-rings __ 4
- Fuel rail tube O-rings __ 4
- Main Needle Holder O-rings __ 6
- Main needles __ 6
- Pilot screws, springs, washers, orings __ 24
- Slow and main jets. 35/100 (stock) __ 12

K&L Float Bowl Needle Valves – 6 parts

Additional New Parts Added to Carb Rebuild Kit – 43 parts

- Air Cut Valve Screws __ 6
- Air Cut Valve Tubing __ 6
- Crossover arm bearings __ 2
- Crossover arm cotter pins __ 2
- CV Cap Screws __ 18
- Fuel line clamps __ 6
- Fuel Lines __ 3

1. The All Balls carb kit includes 18 green screws that are for the chrome carb CV diaphragm covers. Use the 18 chrome CV Cap screws from the kit I included, unless you prefer green!
2. The bowl float needle valves included in the All Balls kit do not set the floats at the proper level. Throw them away and use the K&L float bowl needle valves.
3. The All Balls bag with the screws also has springs and washers for the Pilot valves.
4. I supply new screws for the Air Cut Valves (ACVs) in the ACV Tubing and Screws Kit. The originals screws are not supposed to be reused.
5. The All Balls O-rings and gaskets all come in one bag and are unmarked. Reference the document “All Balls O-rings and Gaskets” for sorting them.
6. I use Super Lube Multi-Purpose Synthetic Oil to lubricate the rubber gaskets and O-rings.
7. DO NOT spray carb cleaner into the carbs with the CV diaphragms, and/or the ACVs installed you may ruin the rubber parts. The ACVs cost about \$80 each, and the slider diaphragms cost about \$100 each. It would cost over \$1000 to replace them all.

8. I highly recommend using an ultrasonic cleaner to clean the carbs after **complete** disassembly. I include the Carb Inspection and disassembly report I use when rebuilding customer carbs. You may find it helpful.
9. Reference the following documents for details on rebuilding and inspecting the carbs. They are available for download in the “Download” section of our website www.valkyriecarbsandcustom.com.
 - Air Cut Valve Testing
 - All Balls O-rings and Gaskets
 - Bowl & Drain Screw Leak Test
 - Crossover Arm Bearing Test & Replacement
 - Installing the All Balls ACV O-rings
 - Carb-Passage Testing
 - Carb-Rebuild Inspection and Disassembly Report



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