



POM Float Kit Upgrade Instructions

SC2 Models: 36BAK00111+, 38BAK00081+, 40BAK00061+

Thank you for being a SmartCarb® customer! Refer to these instructions and your SmartCarb® User Manual for proper installation of the SmartCarb® POM Float Kit. This Kit is only compatible with 36, 38, and 40mm SC2 SmartCarb® carburetors sold before January 1st, 2021 including serial numbers 36BAK00111 and later, 38BAK00081 and later, and 40BAK00061 and later. All 36-40mm SC2 model SmartCarbs shipped after January 1st, 2021 are already equipped with the POM Float.

A moderate level of mechanical skill is required to install this Kit. If you require assistance we recommend that you contact us directly.

Required Tools

The following tools are required:

- Any tool necessary to uninstall your SC2
- 1/4" Flat Screwdriver
- Allen Wrenches (3mm, 4mm)
- Vice (with soft jaws)
- Pliers (needle nose)
- Power Drill
- Assorted Drill Bits (specified)
- Compressed Air (recommended)

Kit Components

The Pom Float Kit includes:

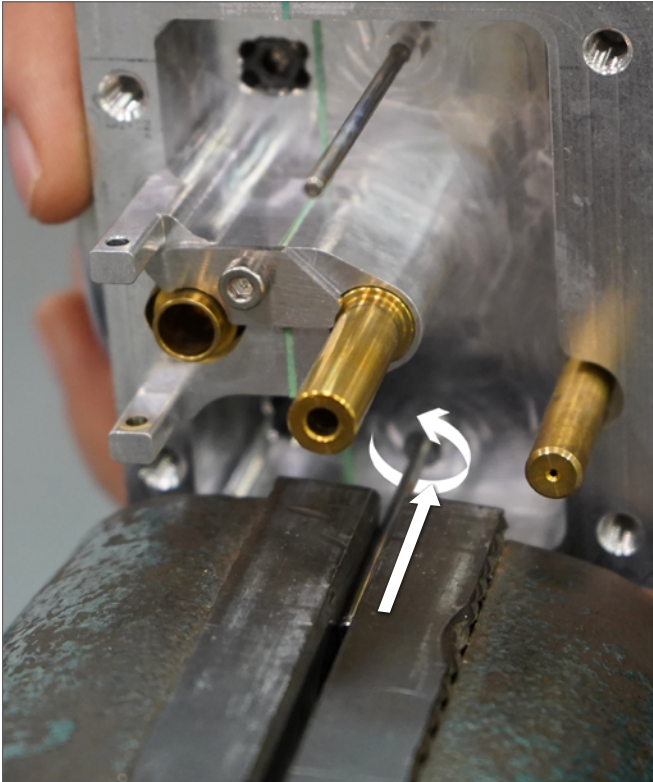
- These Instructions
- POM Float
- Brass Bushing



Kit Preparation

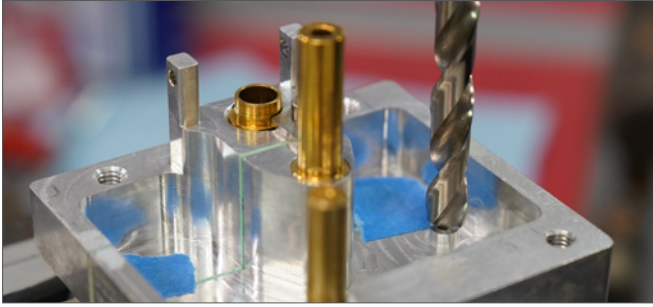
Caution: Gasoline is extremely flammable and is explosive under certain conditions. Make sure your work area is well ventilated and free from any source of flame or sparks, i.e., appliances with pilot lights or self igniters such as water heaters or furnaces.

1. Uninstall your SC2 SmartCarb® from the vehicle, making sure that **the fuel valve or petcock is turned OFF at the tank**. Lifting the rear subframe may make this process easier. You may leave the Cap and Slide attached to the throttle cable.
2. Drain the float bowl using a 1/4" Flat Screwdriver.
3. Refer to Page 55 of the SmartCarb® User Manual to gently and thoroughly clean your SmartCarb before continuing.
4. Remove the brass Float Chassis, Float Axle, and Float Needle and set them aside.
5. Using a pair of pliers or a flat screwdriver, pull or pop off the 3/32" E-Clips mounted to the Float Guide Rods and then remove the puck style Floats.
6. One at a time, tightly clamp the Float Guide Rod into the vice (without soft jaws). Carefully twist the SC2, rotating it around the Guide Rod axis (without hitting the aluminum carb body on the vice) until the Guide Rod spins and pulls free from the boss that it is pressed into. Twist and pull the SC2 body until it comes free of the Guide Rod. Repeat this step with the other Guide Rod. Once removed you can discard the Guide Rods, puck Floats, Float Chassis, and E-Clips.

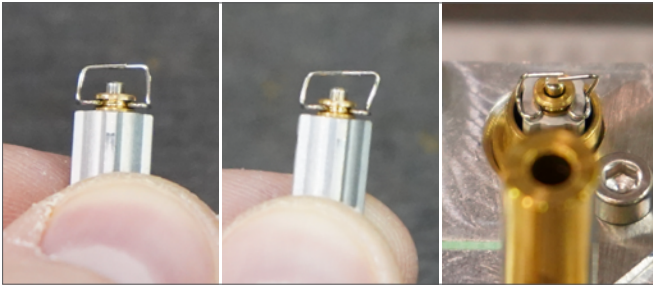


Kit Installation

1. Place a small square of tape over each check valve to keep debris out.
2. Mount your SmartCarb® into the vice, upside down, using the soft jaws to protect it.
3. Using a power drill, drill down the Float Guide Rod bosses using a 5/16" (8mm) or similar size bit until flush. **DO NOT drill any deeper than the original depth of the hole.** Eliminating the two bosses gives the POM Float proper clearance.



4. Clear away the remaining aluminum chips with compressed air and re-clean if necessary. Remove the tape covering the check valves.
5. Using a pair of needle nose pliers, adjust one side of the float needle bail slightly outward and place it back into the needle seat with the **outward protruding side of the bail facing to the right** (smaller, engine side spigot of the SC2 facing toward you) so that it doesn't interfere with the slightly offset POM Float tab.



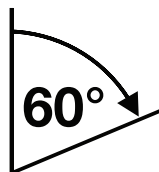
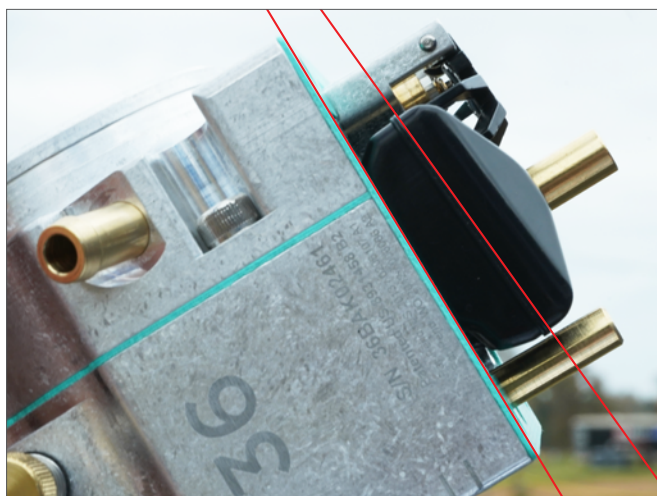
6. Insert the Float Axle into the left float tower so that it protrudes into the middle 1-2mm and then place the Brass Bushing onto it.
7. Slide the POM Floats into place with the center tab **underneath** of the Float Needle Bail with the Float pivot in between the Brass Bushing and the right side float tower, and then push the Float Axle into place.



Setting Float Level

1. Assess the POM float setting by tilting the SmartCarb® (about 60 degrees) so that the float barely contacts or rests on the float needle valve plunger (without depressing it). The POM float parting line should angle slightly above parallel to the float gasket as shown in the photo below, give or take 1mm as required for your performance needs.

Caution: if the POM Floats are able to contact the brass choke pick-up tube through its range of movement, **very carefully bend the pick-up tube away from the POM Floats using a 7mm deep socket or similar tool.**



2. Install the Float Bowl and reinstall your SC2 SmartCarb® per the instructions on Page 20 of your SmartCarb® Installation Manual. Remember to re-fill the float bowl slowly and with the choke open.

Contact

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+1 (816) 255 2328

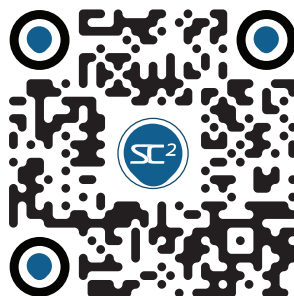


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Online Resources

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