



Congratulations on your purchase of the Merge APS (Accelerator Pump Spring)

These instructions are intended to provide the competent mechanic with the information necessary to correctly install and adjust this Merge product.

Installation

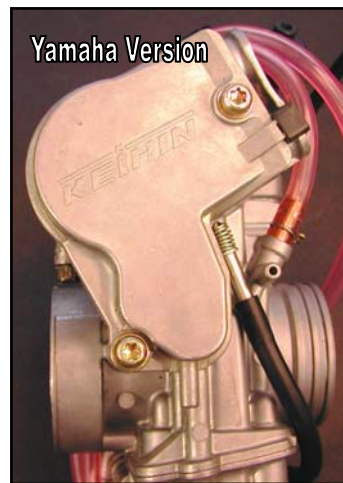
Important - If you are not a competent mechanic do not attempt to install this product yourself; have your local dealer or tuning shop install it for you.

Precautions:

- **Always wear Safety Glasses when working on a motorcycle.**
- **Always let the motorcycle cool down completely before you work on the fuel system.**
- **Gasoline is flammable! Read all safety instructions in your manual.**
- **Always clean the area around the carburetor before disassembly.**

Read all instructions before installing the APS.

1. Remove the carburetor per your owner's manual.
2. Remove the carburetor side cover if you have not already done so as part of the carburetor removal procedure. This cover is secured in place by a 4mm Allen or (2) # 25 Torx screws on the Yamaha version of the FCR.
3. Remove the "E" clip by prying it out of the groove with a small screwdriver. *See fig 1 Note: "E" clips can spring off unexpectedly so hold a finger over the clip as you remove it so it doesn't get lost.*
4. Disconnect the black plastic linkage arm from the pushrod; this is normally done by removing the float bowl and pulling down on the pushrod. *Note: you can often detach the pushrod ball from its plastic socket by gently holding the linkage open with a medium screw driver and prying the pushrod down with a small screw driver. See fig 2*
5. Once the pushrod is disconnected remove the black pushrod arm and the original accelerator pump spring.
6. Install the APS with the U shaped end inwards and pointing down. *See fig 3*
7. Rotate the APS counter clockwise until it contacts the steel arm. *See fig 4*
8. Reinstall the black plastic pushrod arm making sure the end of the APS is sitting on its correct shoulder, the pushrod ball is in its socket, the small washer is beneath the "E" clip and the "E" clip is installed with its sharp edge facing outwards. *See fig 5.*



Yamaha Version



All Others

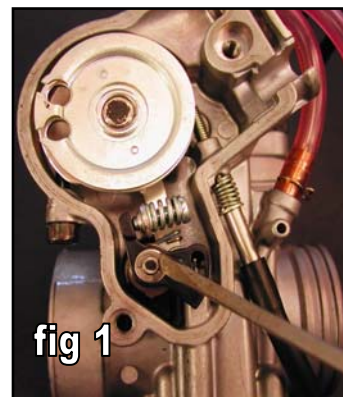


fig 1

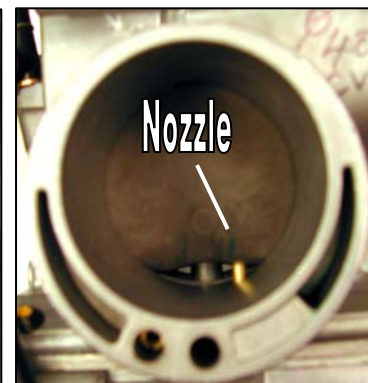
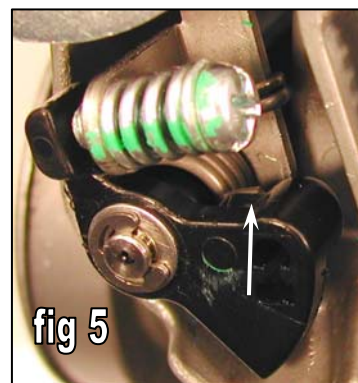
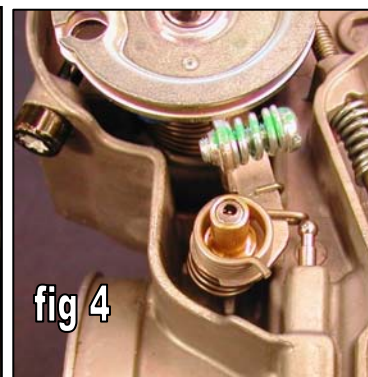
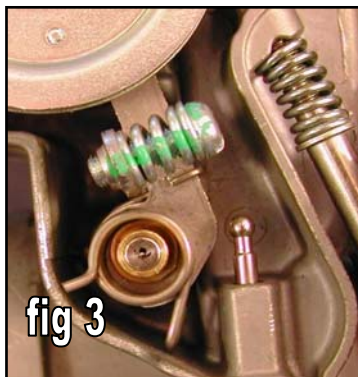


fig 2

9. Open and close the throttle to make sure everything is installed correctly and you feel a smooth action with no binding.
10. Reinstall the carburetor on your motorcycle per your owner's manual.

Adjustment and Setup

- *The linkage arm adjustment or timing is factory set, so adjustment isn't normally needed.*
 - *Before you attempt to make adjustments make sure your engine is serviced. It's extremely important that the piston, rings, valve clearances and the air filter, etc. are in good condition.*
 - *You will need the subframe removed to carry out this procedure.*
11. Make sure the carburetor is correctly mounted on the engine, the fuel tank in place, there is fuel in the tank, the petcock is turned on and you have given the fuel a few seconds to fill the float bowl.
 12. Open and close the throttle until you see a consistent flow of fuel being sprayed out of the accelerator pump nozzle.



13. Once you have a steady flow of fuel coming out of the nozzle make sure the jet of fuel just misses the slide as it opens. If the slide has gone more than a few millimeters when the fuel starts to spray, the pump is late. This can cause a bog or hesitation. If the spray hits the slide, the timing is too early, which causes a rich feeling like the bike is on choke.
 - *To make the jet spray closer to the slide turn the screw counterclockwise.*
 - *To stop the jet of fuel hitting the slide turn the screw clockwise.*

When the adjustment is correct reinstall the subframe, seat & all other remaining components per your owner's manual.

Additional items required

- **Small Flat Blade Screwdriver**
- **Med Philips Screwdriver**
- **4mm Allen or # 25 Torx**
- **Medium Flat Blade Screwdriver**
- **Owner's manual for your motorcycle**

Other Safety Notices –

Offroad motorcycles should never be ridden when they are not functioning correctly.

Other recommended Merge Racing Technologies products

- # 00-008 "ALJ" Adjustable leak Jet Kit
- # 00-019 "FMS" Fuel Mixture Screw

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