

MPS Water Methanol Injection Gen 1 & Gen 2 Hayabusa



PIN 1-0792 Gen 1 Hayabusa
PIN 1-0793 Gen 2 Hayabusa

Overview: The MPS Water/Methanol Injection kit for the Hayabusa will help keep your nitrous engine together longer. The water/methanol injection will help carry engine damaging heat out of the engine allowing you to make more power reliably. A 50/50 mix of water and methanol is normally used where rules allow or 100% water where rules dictate water only. The intake bells are custom for the Gen 1 or Gen 2 Hayabusa and have a very fine mist nozzle with an 80 degree full cone spray pattern. They have a .010" orifice and flow .63 GPH (Gallons per Hour) at 40 psi and 2.00 GPH at 100 psi. You can use pulse width modulation like a nitrous stage to vary the amount of water as well as pressure. We normally use a nitrous stage to control the water/methanol injection. The kit is made for no air box applications only.

Mount the bottle straight up in an accessible location using the billet mount provided. You will probably need to weld on a tab for it. Make sure you mount it in a location that allows you to unscrew the bottle top to refill it.

Mount the solenoid as close to the intake bells as possible. Run the ¼" poly line from the bottom of the bottle to the inlet of the solenoid.

Mount the intake bells to the throttle bodies. The intake bells will just slip over the throttle bodies. Use a bead of silicone sealant around the bell to secure it to the throttle bodies. Connect the 1/8" poly line to the outlet of the solenoid to the y connector on the intake bells.

Fill the water bottle half way up with your water/methanol solution. Only fill half way to leave room for pressurized air. Too small a volume of air will make the pressure drop quickly in the bottle reducing the amount of water/methanol injected. Fill the water bottle with 100 psi of air. The amount of air pressure will affect the flow and should be used with the pulse width modulation to tune the water volume injected. Optionally, you can use a pressure regulator from your nitrous bottle to supply a steady amount of pressure to the bottle. This will avoid any pressure drop that can alter the water/methanol volume injected.

If you have any more questions we have a Frequently Asked Questions page at our web site as well as the telephone tech support. Thank you for your purchase of this MPS product. All products sold by MPS are for use at closed course competition events and not for use on public streets or highways.