

AIR-FUEL RATIO REGULATION FOR INTERNAL COMBUSTION ENGINES

ABSTRACT

An air bypass system for an internal combustion engine is provided. The internal combustion engine includes an air intake system defining a first air intake chamber and a second air intake chamber coupled in flow communication with the first air intake chamber. The air bypass system includes at least one bypass assembly controlling flow communication between the first air intake chamber and the second air intake chamber, said at least one bypass assembly facilitating air flow from the second air intake chamber into the first air intake chamber during an expansion stroke of the internal combustion engine.

[Figure 1]