

Input Shaft Speed Sensor

- A rotor, which is used by an input shaft speed sensor, is provided in the clutch case area for the purpose of detecting the input speed of the transmission. The sensor is provided on the left side of the transmission case in order to output the NT speed signals of the input shaft to the engine ECU.
- A rotor, which is used by an output shaft speed sensor, is provided in the transmission. The output shaft speed sensor is provided on the right side of the transmission case in order to output the SP2 output shaft speed signals to the engine ECU.
- These sensors are electromagnetic pickup sensors that offer a high level of detection accuracy. As the rotor makes a rotational movement, the air gap between a protrusion (which is provided for detection purposes) and the sensor changes. This causes the magnetic flux that passes through the coil of the sensor to increase and decrease, thus generating an electromotive force in the coil. Depending on whether the protrusion and the sensor approach or separate from each other, this force generates voltage in opposite directions, thus creating an alternating current force.

