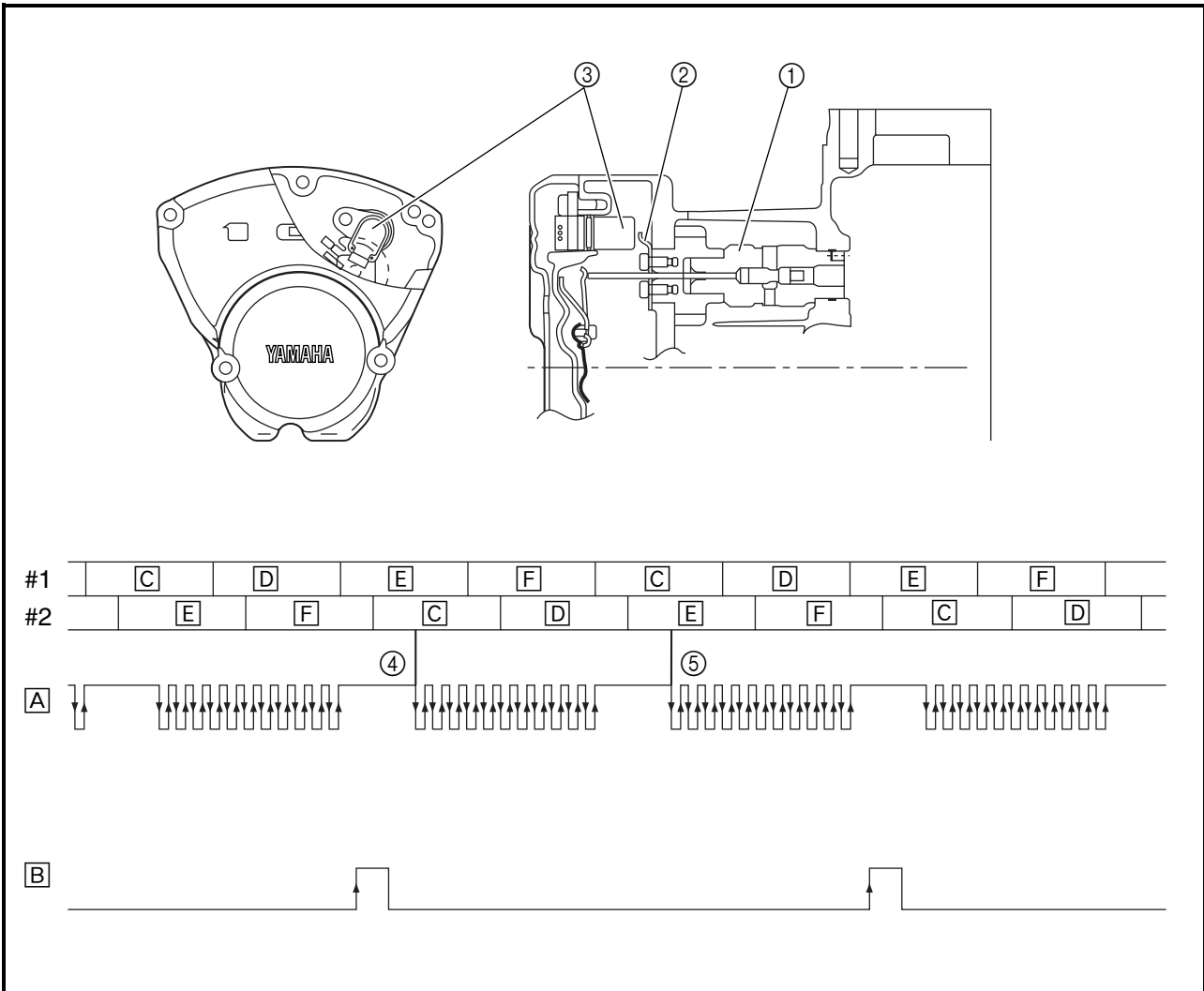


Cylinder identification sensor

The cylinder identification sensor is installed on the camshaft drive gear cover. When the cam of cylinder #1 rotates, the pickup rotor installed on the cam also rotates. When the pickup rotor passes by the sensor, trigger poles on the rotor generate a signal and send it to the ECU. Based on this signal and the signal from the crankshaft position sensor, the ECU then actuates the injectors to supply fuel.

Cylinder identification

When the crank angle is 110 degrees or higher, no signals are transmitted from the crankshaft position sensor to the ECU. Once the crank angle is less than 110 degrees, the first signal that the ECU receives from the sensor identifies cylinder #1 at 82° BTDC. When the ECU receives a signal from the cylinder identification sensor, cylinder #1 is at 82° BTDC on the exhaust stroke. When the ECU does not receive a signal from the cylinder identification sensor, cylinder #1 is at 82° BTDC on the compression stroke.



- ① Front cylinder camshaft
- ② Front cylinder camshaft end cover
- ③ Cylinder identification sensor
- ④ Exhaust stroke of cylinder #1 (82° BTDC)
- ⑤ Compression stroke of cylinder #1 (82° BTDC)
- A Crankshaft position sensor signal
- B Cylinder identification sensor signal
- C Compression
- D Combustion
- E Exhaust
- F Intake