

This diagram illustrates the exploded view of the MGC-S501EX engine assembly. The components are numbered 1 through 74, and their assembly sequence is indicated by letters A through E. The main assembly steps are as follows:

- Step A:** Assemble the top cover (37) and gasket (39) onto the cylinder head (9). Install the piston pin (16) and piston (11) into the cylinder.
- Step B:** Assemble the crankshaft (27) and connecting rod (28) into the crankcase (4). Install the crankshaft pin (26) and the crankshaft seal (25).
- Step C:** Assemble the camshaft (17) and its timing components (19, 20, 21, 23, 24) into the camshaft housing (42).
- Step D:** Assemble the piston rings (33, 34) and the piston pin (35) into the piston (11).
- Step E:** Assemble the timing belt (50) and its tensioner (51) onto the crankshaft (27) and camshaft (17).

The diagram also shows the installation of various other components, including the oil pump (71), oil filter (72), and the timing belt (50). The MGC-S501EX engine is shown in a disassembled state, with the main components labeled 1 through 74.