



PISTON

PISTON RINGS
REASSEMBLY: Refer to GX120-GX160-GX200 Engine Assembly Information.

CONNECTING ROD
REASSEMBLY: Install the connecting rod with the long end toward the triangle-marked side of the piston.

PISTON PIN CLIP (2)
REASSEMBLY: Refer to GX120-GX160-GX200 Engine Assembly Information.

CUT OUT

BALANCER

BALANCER DRIVE GEAR
 (large gear on the crankshaft)

PUNCH MARKS

TIMING GEAR
 (smaller gear on the crankshaft)

CAMSHAFT

CRANKCASE COVER/GOVERNOR

LOCK PIN
REASSEMBLY: Install the lock pin immediately after installing the governor arm shaft, and move the shaft to the cylinder side as shown. The lock pin must be installed with the straight side of the pin against the groove in the shaft.

GOVERNOR SLIDER
REASSEMBLY: Spread the governor weights to install the slider; then check to be sure the slider moves smoothly.

GOVERNOR WEIGHT (3)
REASSEMBLY: Check that the weights move freely.

GOVERNOR WEIGHT HOLDER
REASSEMBLY: Before installing, check for wear and damage of the gear.

DOWEL PIN (2)

WASHER
REASSEMBLY: Install inside the case.

GOVERNOR ARM SHAFT
REASSEMBLY: After installing, rotate the shaft to the cylinder barrel side.

CLIP
REASSEMBLY: Install firmly into the shaft groove.

BALL BEARING

GREASE

OIL SEAL 35 x 52 x 8 mm

GOVERNOR PIN (3)

WASHER

CRANKCASE GASKET
 Do not reuse.

CRANKCASE COVER 8 x 35 (7)
24 N-m (2.4 kgf-m, 17 lbf-ft)

CRANKSHAFT/BALANCER/PISTON

PISTON
REASSEMBLY: Install with the triangle mark toward the pushrod hole.

TRIANGLE MARK

OIL SEAL 35 x 52 x 8 mm
 GREASE

10 mm FLANGE NUT
10 N-m (1.0 kgf-m, 7 lbf-ft)

OIL DRAIN BOLT (2)
23 N-m (2.3 kgf-m, 17 lbf-ft)
 Replace.

OIL LEVEL SWITCH

CONNECTING ROD BOLT (2)
14 N-m (1.4 kgf-m, 10 lbf-ft)

BALANCER

CRANKSHAFT
REASSEMBLY: Push in until the bearing touches the crankcase. Be careful not to damage the oil seal.

CAMSHAFT
REASSEMBLY: Before installing, inspect for worn and weakened springs and check that the decompressor weight moves smoothly.

DECOMPRESSION WEIGHT

VALVE LIFTER (2)
DISASSEMBLY: When removing, mark so that the IN and EX sides can be distinguished.
REASSEMBLY: Install the lifters immediately before installing the camshaft.

BALL BEARING

TIMING GEAR/BALANCER GEAR

CONNECTING ROD CAP
REASSEMBLY: Install with the oil dipper toward the camshaft and so the ribs on the cap and connecting rod are aligned.

FLYWHEEL/IGNITION COIL

Refer to GX240-GX270 Engine Assembly Information.

CYLINDER HEAD/VALVES

VALVE SPRING RETAINER (2)
DISASSEMBLY, REASSEMBLY: Refer to GX120-GX160-GX200 Engine Assembly Information.

VALVE ROTATOR (Exhaust valve only)
REASSEMBLY: Refer to GX120-GX160-GX200 Engine Assembly Information.

ROCKER ARM PIVOT (2)

ROCKER ARM PIVOT LOCK NUT (2)
10 N-m (1.0 kgf-m, 7 lbf-ft)

ROCKER ARM (2)
REASSEMBLY: Refer to GX120-GX160-GX200 Engine Assembly Information.

EXHAUST VALVE
REASSEMBLY: Do not interchange with the intake valve.
 VALVE HEAD DIAMETER IN: 35 mm EX: 31 mm

VALVE SPRING (2)

VALVE SPRING SEAT (2)

CLIP (EX side only)

INTAKE VALVE

VALVE GUIDE (2)

INTAKE VALVESTEM SEAL

PUSH ROD (2)

PUSH ROD GUIDE

ROCKER ARM PIVOT BOLT (2)
24 N-m (2.4 kgf-m, 17 lbf-ft)

HEAD COVER WASHER

HEAD COVER BOLT
10 x 80 (4) 35 N-m (3.5 kgf-m, 25 lbf-ft)
REMOVAL/INSTALLATION: Loosen and tighten the bolts in a crisscross pattern in 2-3 steps.

CYLINDER HEAD
REMOVAL/INSTALLATION: Refer to GX120-GX160-GX200 Engine Assembly Information.

DOWEL PIN

HEAD COVER GROMMET

CYLINDER

CYLINDER HEAD GASKET
 Do not reuse.

CYLINDER HEAD COVER PACKING
REASSEMBLY: Install the gasket as shown, noting the installation direction.

CYLINDER HEAD COVER

PACKING COVER