GX35 Engine Assembly Information

**PISTON RING**
- Install the second ring with the "•" or "R" mark facing up.
- Do not interchange the top ring and the second ring.
- Do not align with the piston pin.
- Space the oil ring side rail end gaps at least 10 mm (0.4 in) apart. Coat the oil ring with oil after assembly.

**CRANKSHAFT/PISTON**
- **TOP RING (CHROME FACE)**
- **SECOND RING (BLACK FACE)**
- **OIL RINGS (COMBINATION RINGS)**
  - "•" or "R" MARK

**TIMING BELT**
- **INSTALLATION:**
  - Check that the belt is not worn or cracked and do not bend or twist the belt.

**LOWER CRANKCASE**
- **4 x 8 mm SCREW (2)**
- **14.8 x 2.4 mm O-RING**
- **5 x 53 mm HEX BOLT (2)**
- **5 x 16 mm HEX BOLT (2)**

**LOWER CRANKCASE/CYLINDER BARREL/VALVES**
- **VALVE SPRING (2)**
- **VALVE STEM SEAL** (Intake valve only)
  - Do not reuse.
- **VALVE LIFTER (2)**
  - Do not disassemble.
- **VALVE ROCKER ARM (NGK)**
  - Do not disassemble.
- **INTAKE VALVE**
  - Loosely tighten each two 5 x 20 mm and four 5 x 30 mm hex bolts, and then tighten to the numbered sequence.
  - **TORQUE:** 6.4 N·m (0.65 kgf·m, 4.7 lbf·ft)
  - Wait for approximately 60 minutes after assembly before filling with oil and starting the engine.
- **EXHAUST VALVE**
  - Do not interchange with the exhaust valve.

**CAM PULLEY/CRANKSHAFT**
- **CAM PULLEY**
- **ALIGNMENT MARKS**
- **TIMING BELT**

**LOWER CRANKCASE/CYLINDER BARREL/VALVES**
- **VALVE SPRING RETAINER (2)**
  - **DISASSEMBLY:**
    - Do not remove the valve spring retainers while the lower crankcase is installed, or the valves will drop into the cylinder.
- **SPARK PLUG CMR5H (NGK)**
- **CYLINDER BARREL**
  - **Viewed from the back side:**
    - **IN:** 15.5 mm (0.61 in)
    - **EX:** 14.0 mm (0.55 in)

**CAM PULLEY SHAFT**
- **HEAD COVER MATING SURFACE**
- **FLYWHEEL**

**FAN COVER BOLT HOLE**
- **ALIGNMENT MARK**

**CRANKSHAFT**
- **PISTON PIN**
- **10 x 20 x 5 mm OIL SEAL**
- **15 x 25 x 6 mm OIL SEAL**

**OIL OUTLET VALVE PLATE**
- **INSTALLATION:**
  - Install the oil outlet valve to the oil outlet valve plate by aligning the chamfer and projections.

**OIL OUTLET VALVE**
- **STOPPER PLATE**
  - **D13 TUBE CLIP (Color: Silver)**
  - **D12 TUBE CLIP (Color: Gold)**
- **OIL TUBE**
  - **OIL TUBE CLIP**

**OIL FILLER CAP PACKING**
- **REASSEMBLY:**
  - Inspect for cracks or deterioration before installation.

**LOWER CRANKCASE/CYLINDER BARREL/VALVES**
- **OIL FILLER CAP**
- **OIL FILLER CAP PACKING**
  - **REASSEMBLY:**
    - Inspect for cracks or deterioration before installation.

**LOWER CRANKCASE**
- **OIL OUTLET VALVE PLATE**
- **INSTALLATION:**
  - Install the oil outlet valve to the oil outlet valve plate by aligning the chamfer and projections.

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