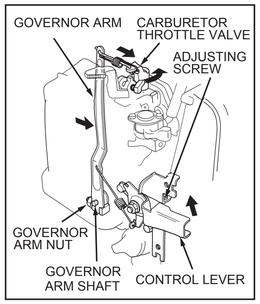
HONDA GXH50

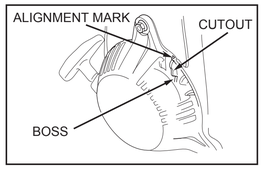
GOVERNOR



1) Remove the fuel tank.
2) Move the control lever to the "HIGH SPEED" position.
3) Loosen the governor arm nut on the governor arm.
4) Push the governor arm end toward the opposite side from the carburetor, and open the carburetor throttle valve fully.
5) Holding the carburetor throttle valve fully open, turn the governor arm shaft clockwise fully, and tighten the governor arm nut to the specified torque.
   TORQUE: 7.0 N·m (0.7 kgf·m, 5.1 lbf·ft)
6) Check to see whether the governor arm and the carburetor throttle valve operate smoothly.
7) Install the fuel tank. Start the engine and allow it to warm up to the normal operating temperature. Move the control lever to the maximum engine speed position and check the maximum engine speed
   Maximum engine speed (no load): 7,800 ±150 min^{-1} (rpm)
8) Adjust the maximum engine speed, if necessary, by turning the adjusting screw in or out.

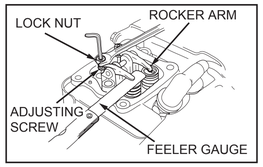
VALVE CLEARANCE

Valve clearance inspection and adjustment must be performed with the engine cold.



Pull the recoil starter rope and set the piston at top dead center of the compression stroke.
(Align the cutout in the flywheel fin or the boss on the flywheel with the alignment mark on the fan cover.)

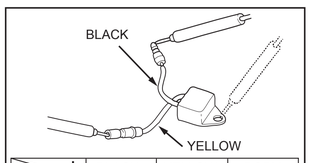
If the exhaust side opens when the cutout in the flywheel fin is in line with the alignment mark, turn the recoil starter pulley one turn and align the marks.



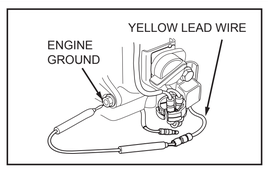
Insert a feeler gauge between the rocker arm and the valve and measure the valve clearance.

VALVE CLEARANCE	0.08 ± 0.02 mm (IN) 0.11 ± 0.02 mm (EX)

OIL ALERT

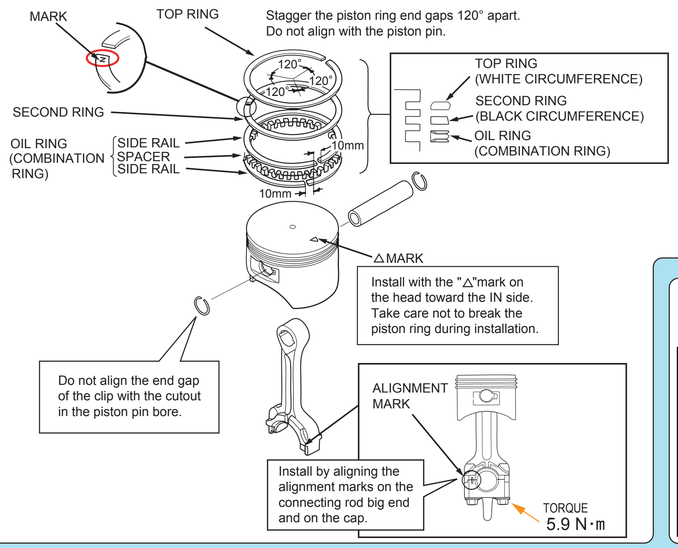


- +	BLACK	YELLOW	BODY
BLACK		50-10kΩ	∞
YELLOW	50-10kΩ		∞
BODY	∞	∞	



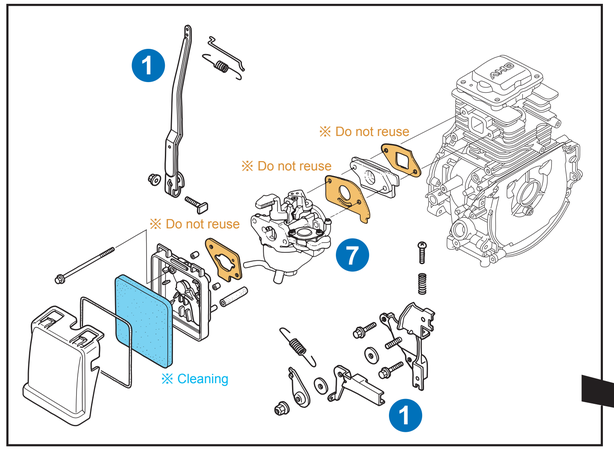
1) With the engine running,disconnect the yellow lead wire from the oil alert unit and ground the wire against the engine. The oil alert system is normal if the engine stops.
2) Drain the oil from the engine and reconnect the yellow lead connectors.
3) Remove the spark plug and perform spark test. There should not be spark.

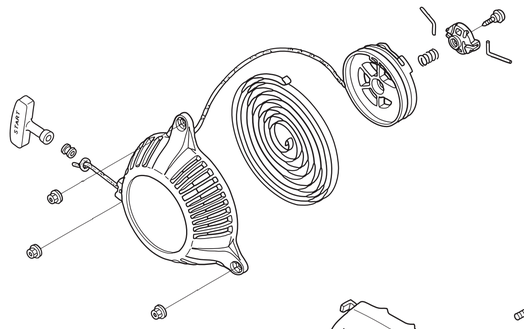
PISTON DISASSEMBLY/REASSEMBLY

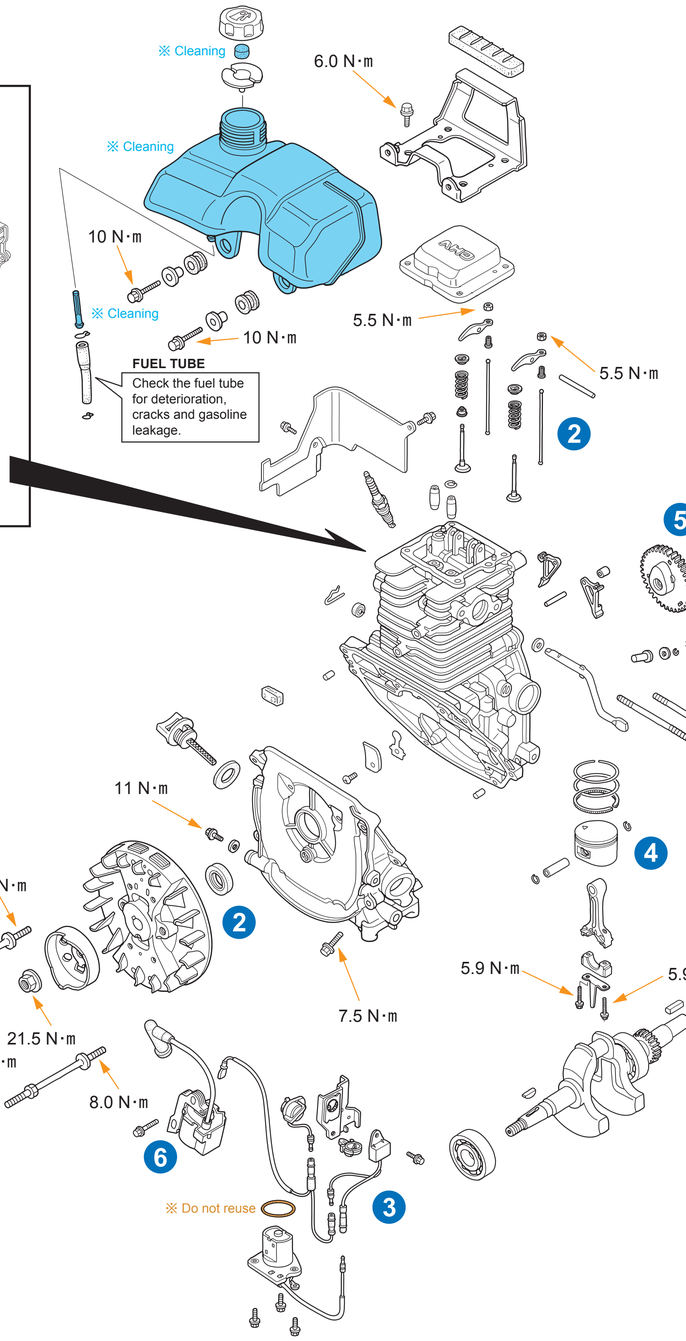


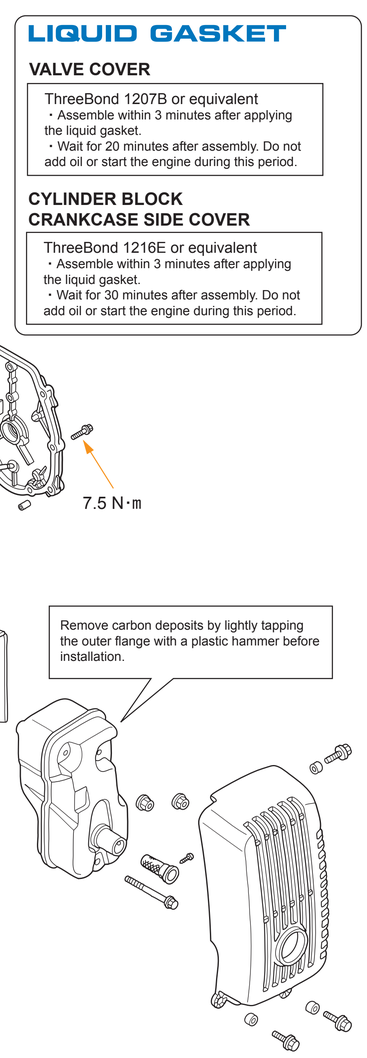
WARNING

Gasoline is highly flammable and explosive. Confirm no leaks are present in fuel system parts.









SPARK PLUG

Spark plug gap	0.6 - 0.7 mm (0.024 - 0.028 in)	
Recommended Spark plug	NGK	CR5HSB
	DENSO	U16FGR-UB

LIQUID GASKET

VALVE COVER

ThreeBond 1207B or equivalent
・Assemble within 3 minutes after applying the liquid gasket.
・Wait for 20 minutes after assembly. Do not add oil or start the engine during this period.

CYLINDER BLOCK CRANKCASE SIDE COVER

ThreeBond 1216E or equivalent
・Assemble within 3 minutes after applying the liquid gasket.
・Wait for 30 minutes after assembly. Do not add oil or start the engine during this period.

ENGINE OIL

Engine oil capacity	0.25 L (0.26 mUS qt, 0.22 Imp qt)
Recommended oil	SAE 10W-30 API Service Classification SE, SF or SG

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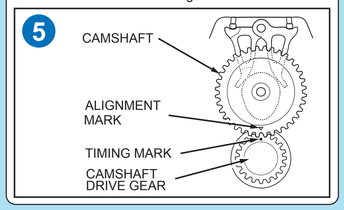
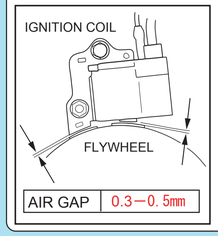
CAM SHAFT ASSEMBLY

Install the camshaft by aligning the alignment mark on the camshaft with the timing mark on the crankshaft.

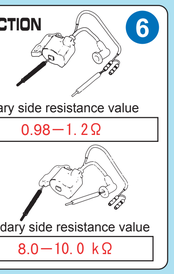


IGNITION COIL

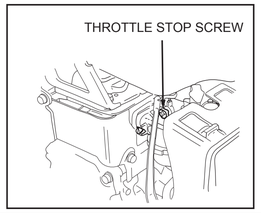


AIR GAP	0.3—0.5mm

INSPECTION



CARBURETOR

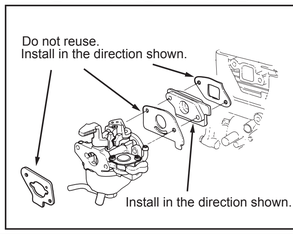


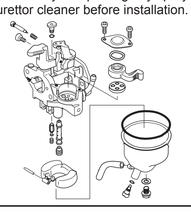
IDLE SPEED ADJUSTMENT

- Start the engine and allow it warm up to normal operating temperature.
- With the engine idling, turn the throttle stop screw in or out to obtain the standard idle speed.

Standard idle speed
2,500±200 min^{-1}(rpm)

REMOVAL / INSTALLATION



DISASSEMBLY / REASSEMBLY

Clean the body and passege by spraying carburettor cleaner before installation.