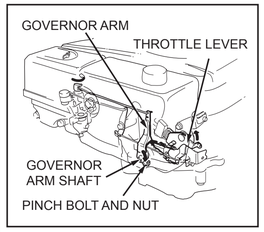
HONDA

GXV340/GXV390

GOVERNOR

1



1) Loosen the nut on the governor arm pinch bolt, and move the governor arm to fully open the throttle.
2) Rotate the governor arm shaft as far as it will go in the same direction the governor arm moved to open the throttle.
3) Start the engine and allow it to warm up to normal operating temperature. Move the throttle lever to run the engine at the standard maximum speed, and check the engine speed.

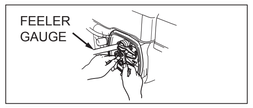
Standard maximum speed	3,400 ±150 min^{-1} (rpm)

VALVE CLEARANCE

2

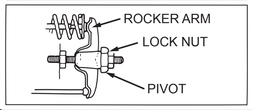
Valve clearance inspection and adjustment must be performed with the engine cold.

Remove the cylinder head cover, and set the piston at top dead center of the compression stroke (both valves fully closed).
The cutout mark in the starter pulley will align with the index mark on the fan cover when the piston is at top dead center of the compression or exhaust stroke.



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

VALVE CLEARANCE	0.15 ± 0.02 mm (IN) 0.20 ± 0.02 mm (EX)

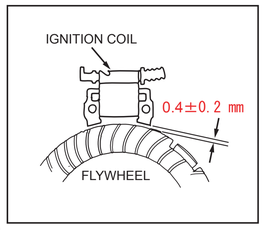


PIVOT
To increase valve clearance, screw out.
To decrease valve clearance, screw in.

IGNITION COIL

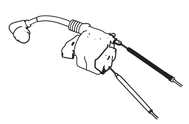
3

IGNITION COIL AIR GAP



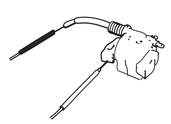
INSPECTION

PRIMARY SIDE



Primary side resistance value
0.7—0.9Ω

SECONDARY SIDE

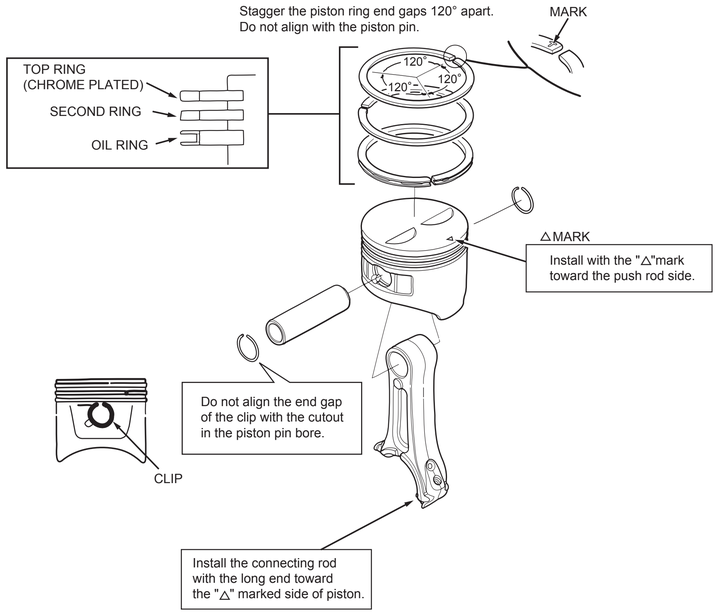


Secondary side resistance value
6.3—7.7 kΩ

PISTON DISASSEMBLY/REASSEMBLY

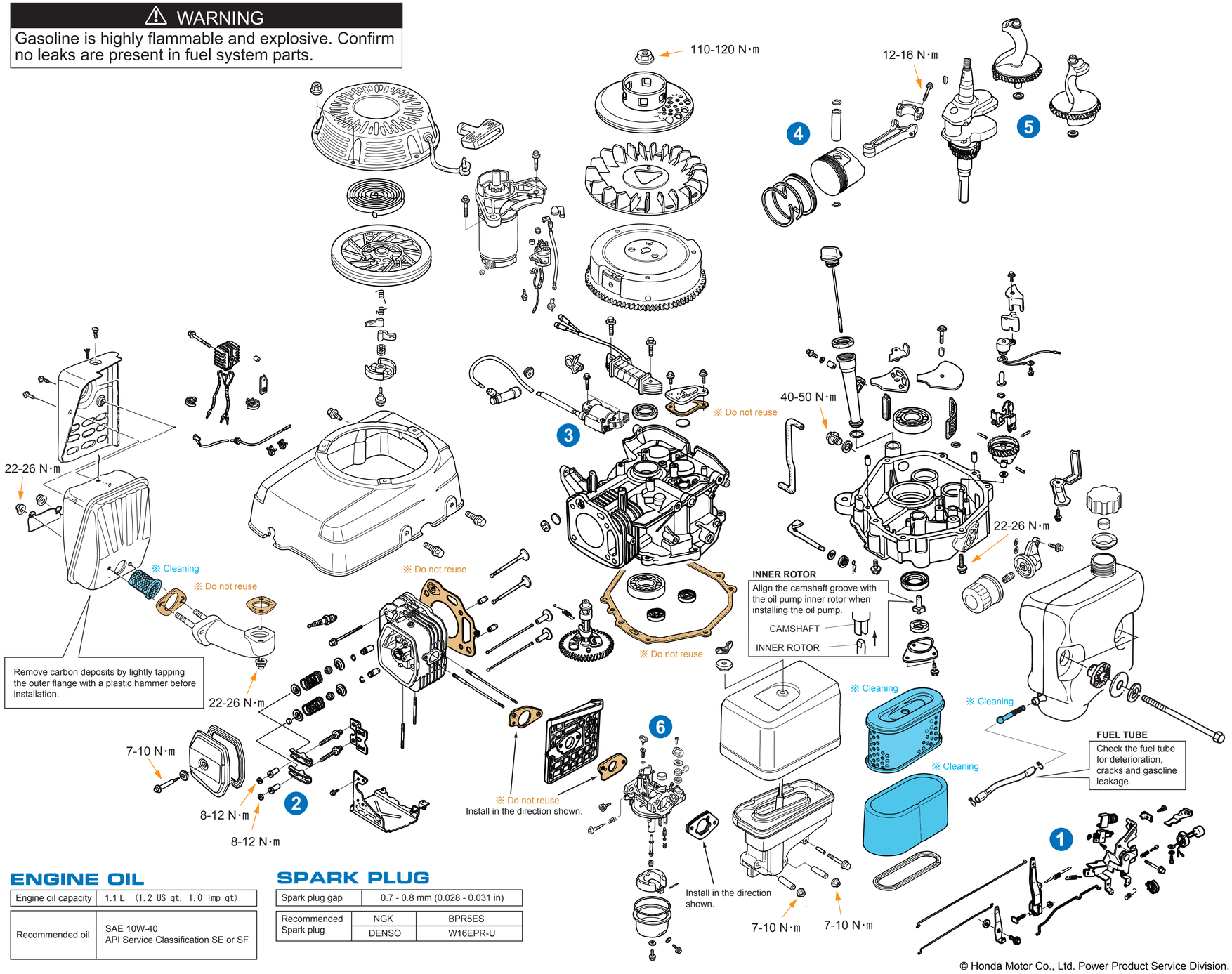
4

Stagger the piston ring end gaps 120° apart.
Do not align with the piston pin.



⚠ WARNING

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



ENGINE OIL

Engine oil capacity	1.1 L (1.2 US qt, 1.0 Imp qt)
Recommended oil	SAE 10W-40 API Service Classification SE or SF

SPARK PLUG

Spark plug gap	0.7 - 0.8 mm (0.028 - 0.031 in)	
Recommended Spark plug	NGK	BPR5ES
	DENSO	W16EPR-U

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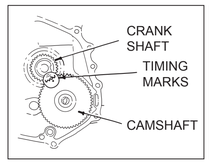
CAMSHAFT / BALANCER

5

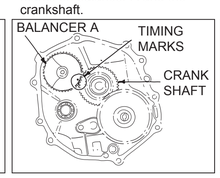
REASSEMBLY

Do not interchange balancers A and B. Balancer A has two timing marks.

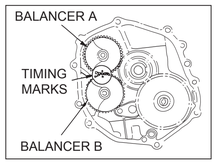
1) Install camshaft aligning the timing marks on the camshaft and crankshaft.



2) Install balancer A with the weight facing down, aligning the timing marks on balancer A and the crankshaft.

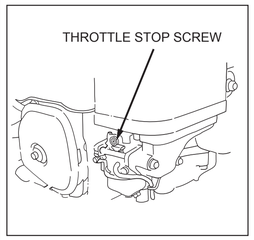


3) Install balancer B with the weight facing down, aligning the timing marks on balancers A and B.

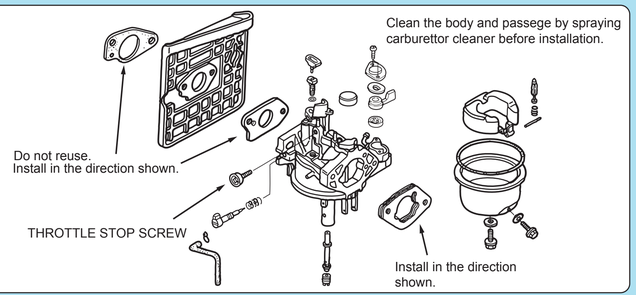


CARBURETOR

6



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
1,400±150 min^{-1}(rpm)