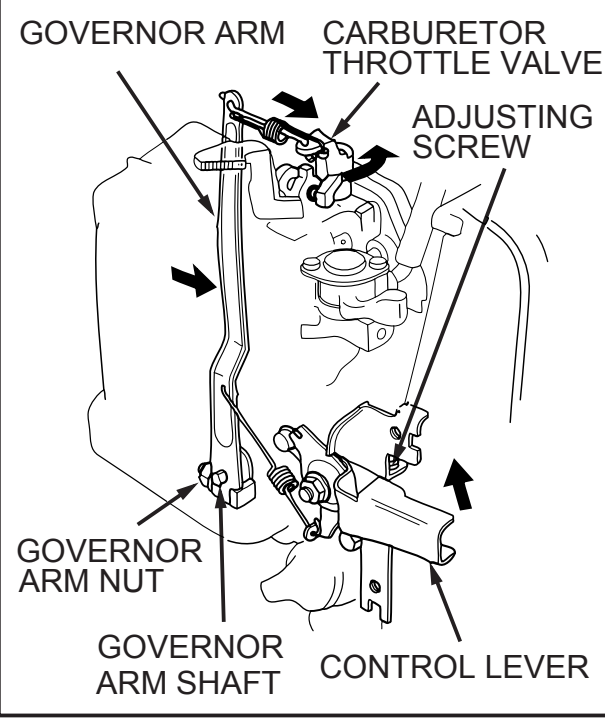


GOVERNOR



1

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.

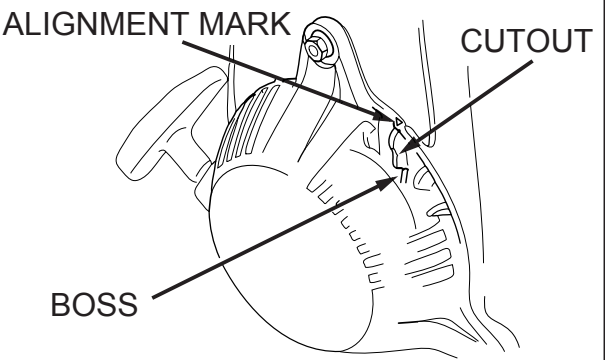
5) Holding the carburetor throttle valve fully open, turn the governor arm shaft clockwise fully, and tighten the governor arm nut to the specified torque.  
TORQUE: 7.0 N·m (0.7 kgf·m, 5.1 lbf·ft)

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<sup>-1</sup> (rpm)

8) Adjust the maximum engine speed, if necessary, by turning the adjusting screw in or out.

VALVE CLEARANCE



2

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.

LOCK NUT

ROCKER ARM

ADJUSTING SCREW

FEELER GAUGE

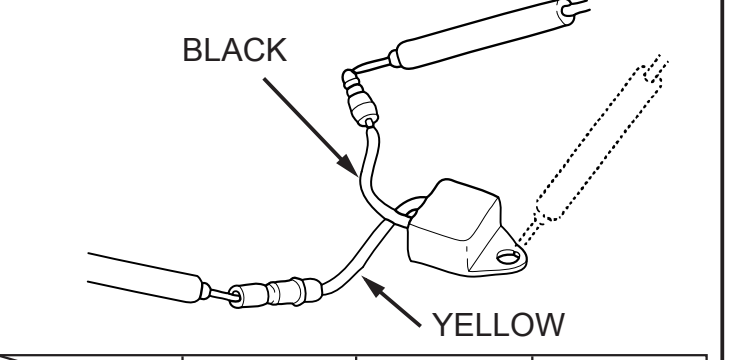
Insert a feeler gauge between the rocker arm and the valve and measure the valve clearance.

VALVE CLEARANCE

0.08 ± 0.02 mm (IN)

0.11 ± 0.02 mm (EX)

OIL ALERT



3

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.

BLACK

YELLOW

BODY

+

BLACK

YELLOW

BODY

-

BLACK

YELLOW

BODY

50-10kΩ

50-10kΩ

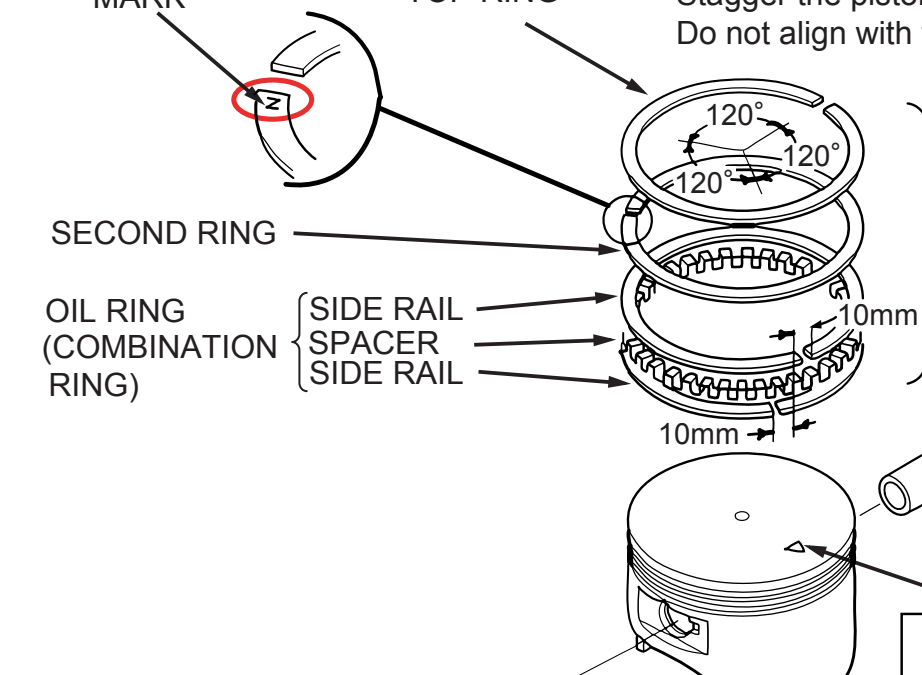
∞

∞

∞

∞

PISTON DISASSEMBLY/REASSEMBLY



4

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

TOP RING (WHITE CIRCUMFERENCE)

SECOND RING (BLACK CIRCUMFERENCE)

OIL RING (COMBINATION RING)

MARK

TOP RING

SECOND RING

OIL RING (COMBINATION RING)

SIDE RAIL

SPACER

SIDE RAIL

10mm

10mm

△ MARK

Install with the "△" mark on the head toward the IN side. Take care not to break the piston ring during installation.

Do not align the end gap of the clip with the cutout in the piston pin bore.

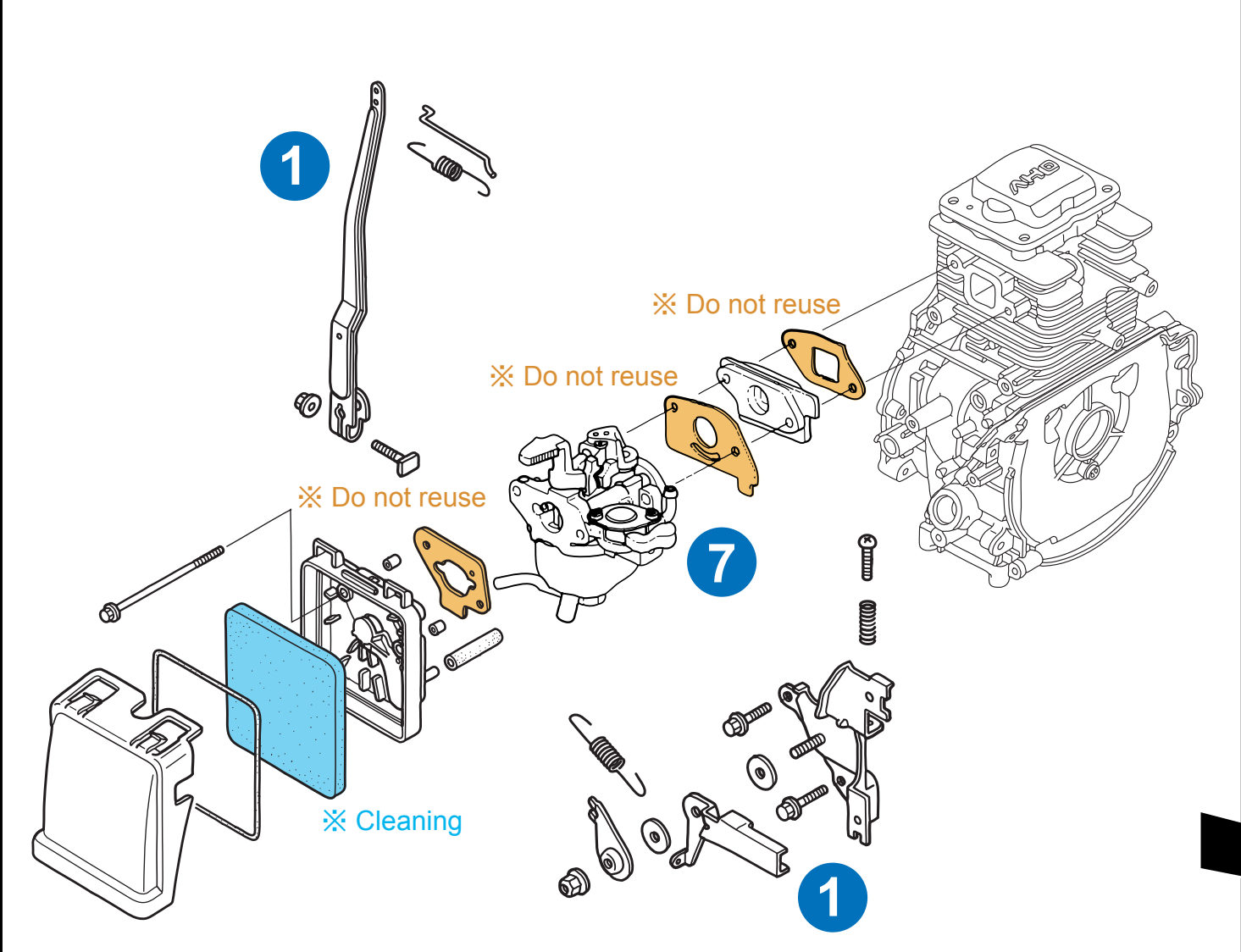
ALIGNMENT MARK

Install by aligning the alignment marks on the connecting rod big end and on the cap.

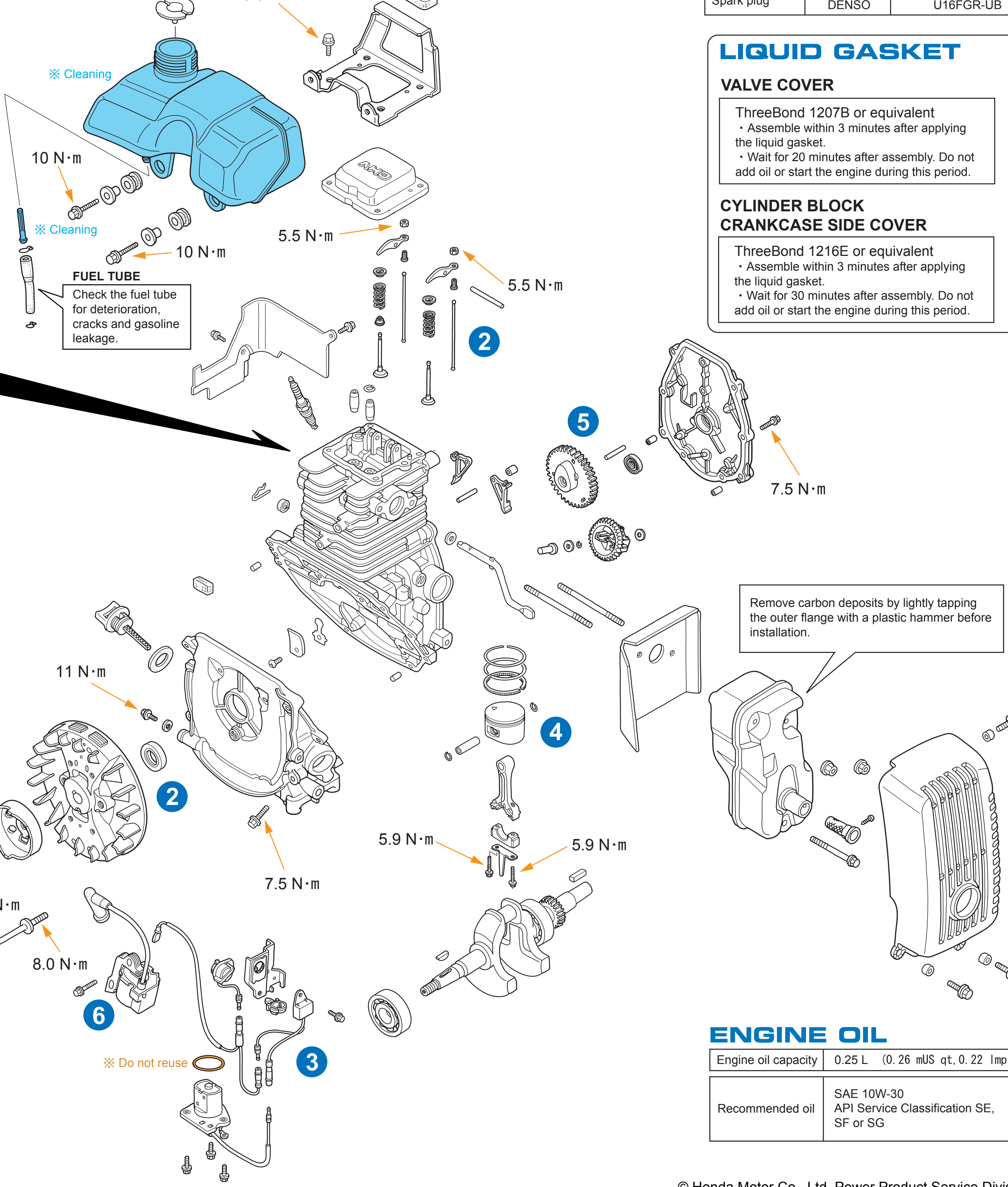
TORQUE 5.9 N·m

Gasoline is highly flammable and explosive. Check to see whether the fuel is not leaking from the fuel system parts.

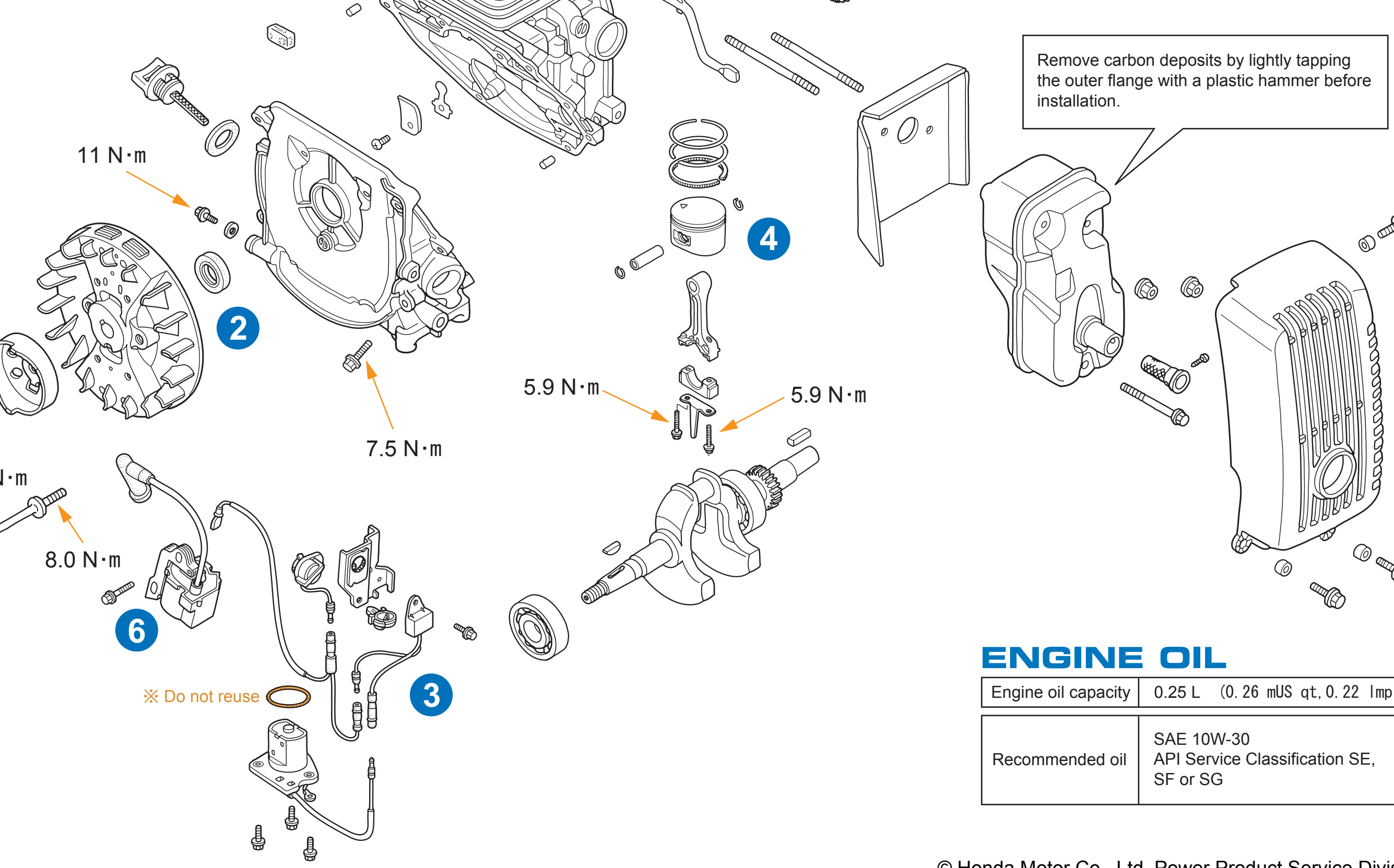
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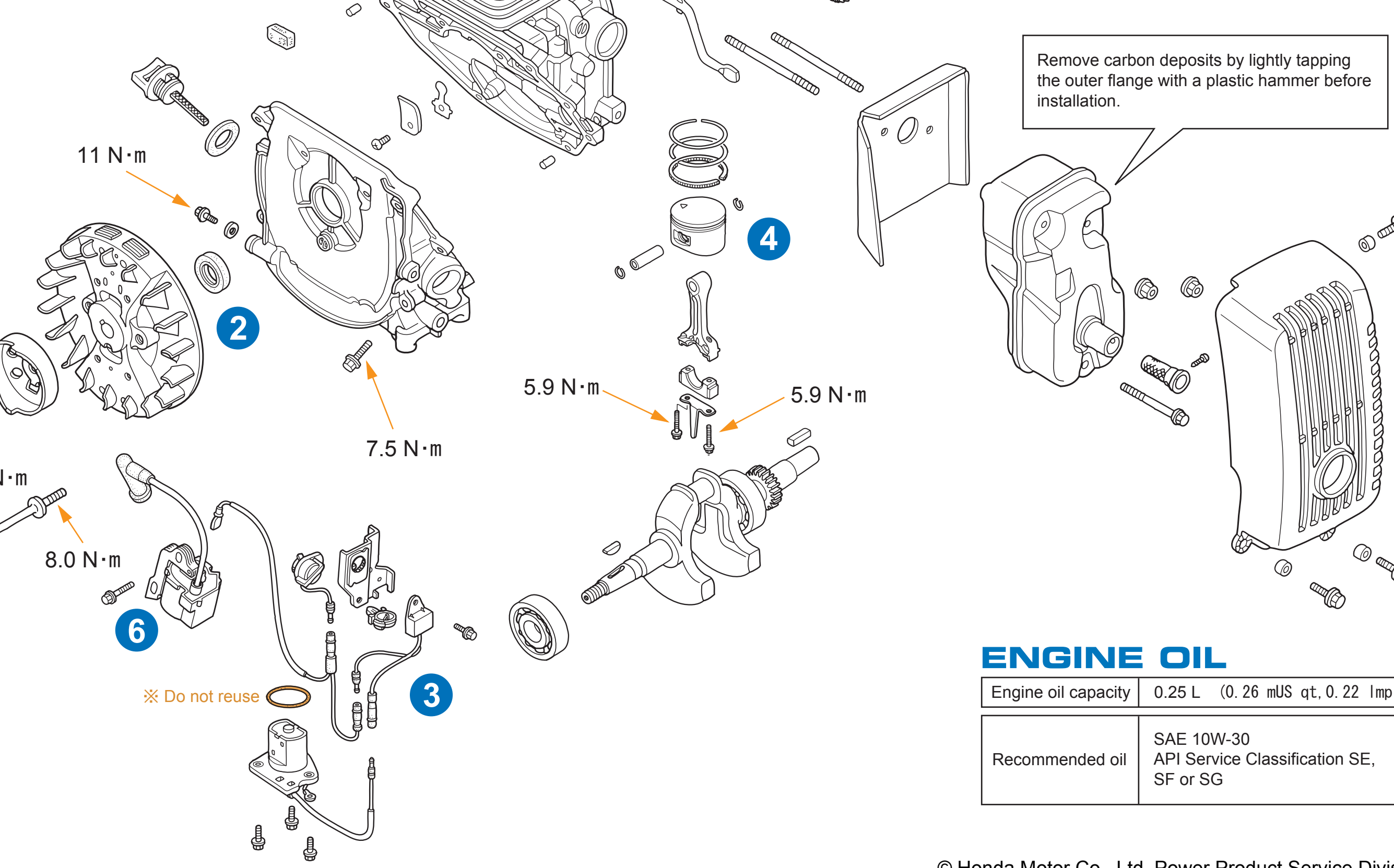
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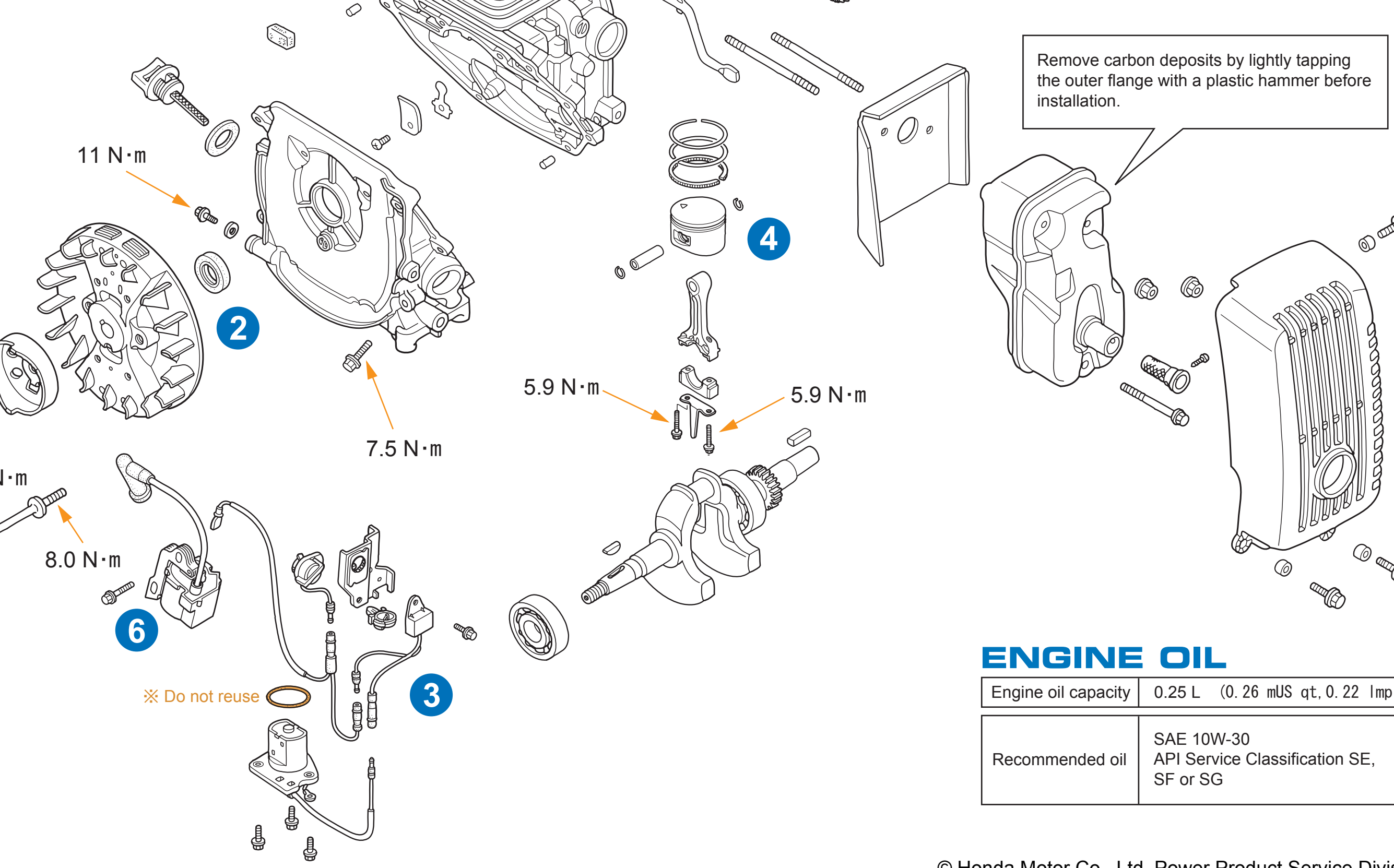
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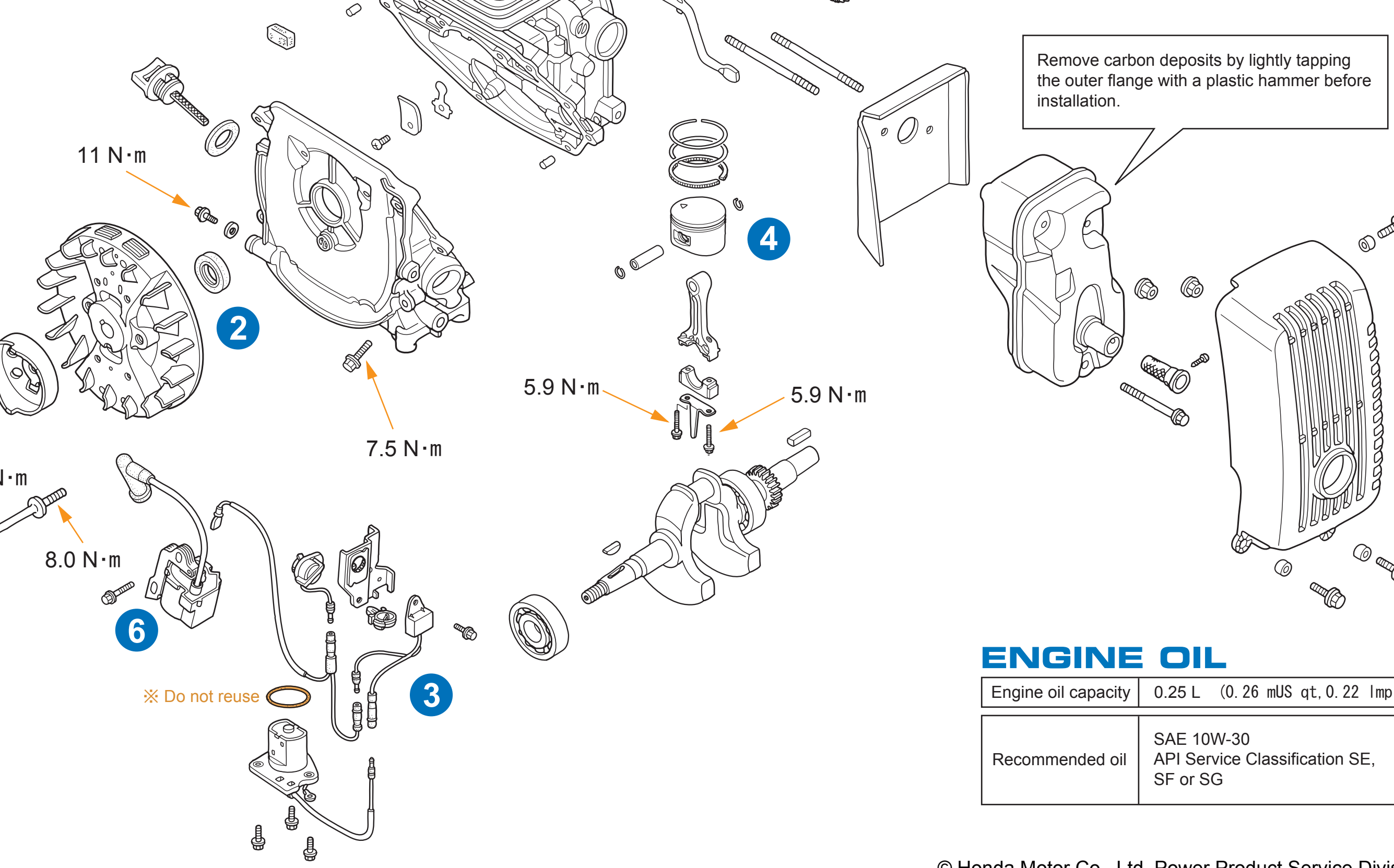
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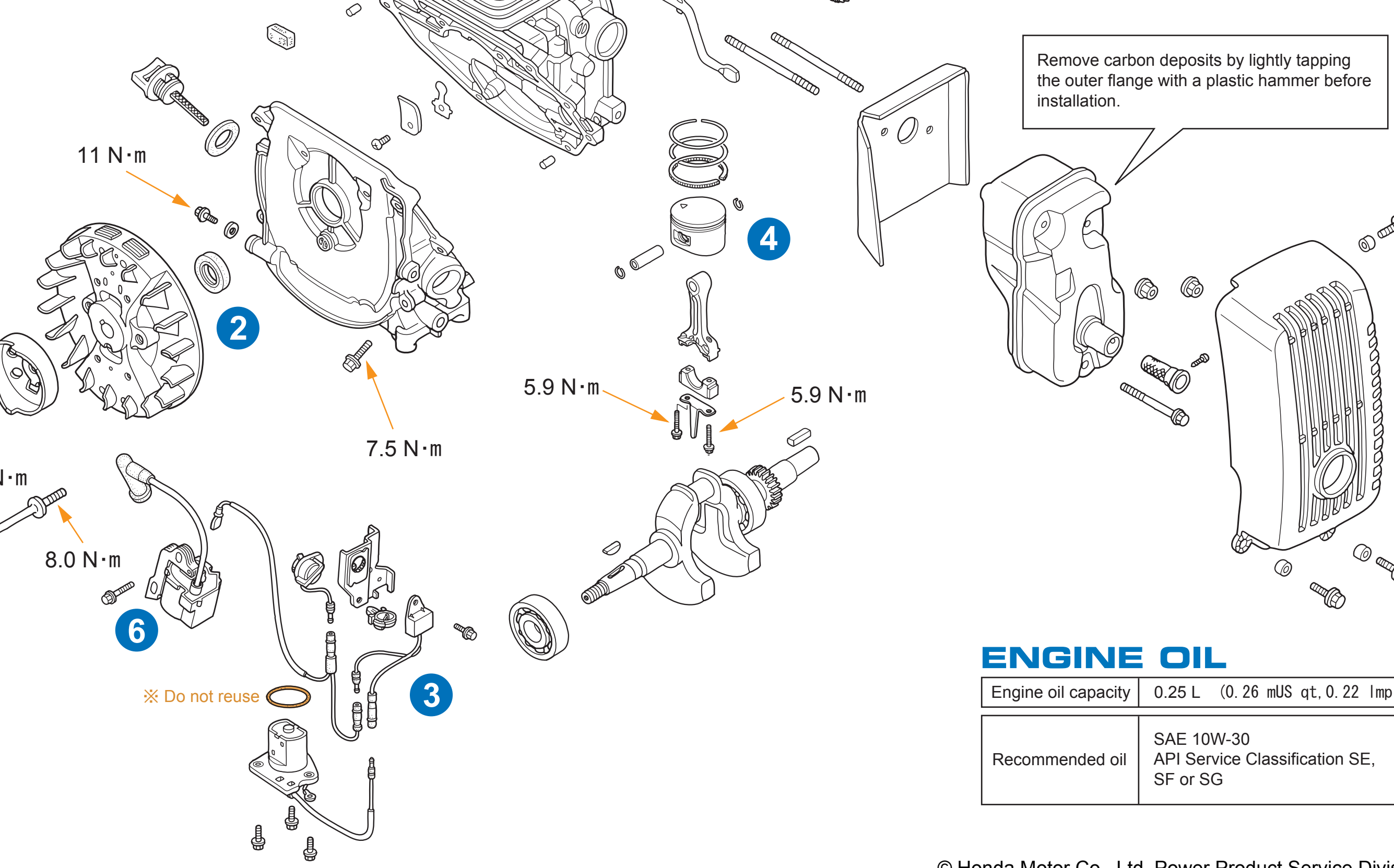
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6



7



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.

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