



| REGULAR SERVICE PERIOD (1) Perform at every indicated month or operating hour interval, whichever comes first. | | Each use | First month or 5 hrs. | Every 3 months or 25 hrs. | Every 6 months or 50 hrs. | Every year or 100 hrs. | Every 2 years or 250 hrs. |
|---|-------|---------------|-----------------------|--|---------------------------|------------------------|---------------------------|
| ITEM | | | | | | | |
| Engine oil | A B C | ● | ● | | ● (2) | | |
| Air cleaner | D | Check | ● | | | | |
| | | Clean/Replace | | ● (3) | | | ● |
| Timing belt | E | | | After every 250 hrs. (4) (5) | | | |
| Spark plug | F | Check-adjust | | | | ● | |
| | | Replace | | | | | ● |
| Spark arrester (applicable types) | G | | | | | ● (6) | |
| Idle speed | H | | | | | ● (5) | |
| Valve clearance | I J K | | | | | ● (5) | |
| Combustion chamber | L | | | After every 250 hrs. (5) | | | |
| Fuel tank and filter | M | | | | | ● (5) | |
| Fuel tube | N | | | Every 2 years (Replace if necessary) (5) | | | |

- (1) For commercial use, log hours of operation to determine proper maintenance intervals.
- (2) Change engine oil every 25 hours when used under heavy load or in high ambient temperature.
- (3) Service more frequently when used in dusty areas.
- (4) Check that there are no cracks or abnormal wear in the belt, and replace it if necessary.
- (5) These items should be serviced by your servicing dealer, unless you have the proper tools and are mechanically proficient. Refer to Honda shop manual for servicing procedures.
- (6) In Europe and other countries where the machinery directive 2006/42/EC is enforced, this cleaning should be done by your servicing dealer.

A OIL FILLER CAP/DIPSTICK

UPPER LIMIT
LOWER LIMIT

Insert the dipstick in the oil filter neck, but do not screw it in. Remove the dipstick and check the oil level.

B

OIL DRAIN PLUG WASHER
OIL DRAIN PLUG BOLT
CONTAINER

Drain the used engine oil while the engine is warm. Warm oil drains quickly and completely.

C SAE Viscosity Grades

30
5W-30 · 10W-30

0 20 40 60 80 100°F
-20 -10 0 10 20 30 40°C

AMBIENT TEMPERATURE

API service category: SF or later
Engine oil capacity: 0.58 l (0.61 US qt)

D AIR CLEANER ELEMENT

Tap the element several times on a hard surface to remove dirt, or blow compressed air (not exceeding 207 kPa <math><2.1 \text{ kgf/cm}^2, 30 \text{ psi}></math>) through the element from the clean side that faces the engine.

E TIMING BELT

Check that the belt is not worn or cracked, and do not bend or twist the belt.

F

GAP: 0.7 - 0.8 mm

SIDE ELECTRODE

Measure the plug gap with a wire-type feeler gauge. If necessary, adjust the gap by bending the side electrode.

Standard spark plug: BPR6ES (NGK)

G

SPARK ARRESTER SCREEN
WIRE BRUSH
SPARK ARRESTER (OPTIONAL PART)
MUFFLER PROTECTOR

H THROTTLE STOP SCREW

Standard idle speed: 1,400 ± 150 rpm

- On some applications the engine speed is fixed and does not idle.
- The standard idle speed may be different depending on the application. Refer to the equipment manufacturer's instructions for specific idle speed setting.

I

ALIGNMENT MARKS
CAM PULLEY
CYLINDER HEAD COVER MATING SURFACE

Set the piston at top dead center of the compression stroke (both valves fully closed).

J

VALVE ADJUSTING WRENCH B
VALVE ADJUSTING LOCK NUT
FEELER GAUGE
VALVE ADJUSTING SCREW

Valve clearance: 0.15 mm ± 0.04 mm (IN)
0.20 mm ± 0.04 mm (EX)

K

VALVE ADJUSTING SCREW
VALVE ADJUSTING LOCK NUT
VALVE STEM

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

L

CLEANING BRUSH
ELECTRIC DRILL

Use thick paper or equivalent to protect the cylinder.

- Do not use excessive force to remove carbon from the aluminum head.
- Do not allow the cleaning brush to contact the cylinder wall.

M

FUEL TANK
FUEL STRAINER

Wash with solvent to remove the sediment, and dry thoroughly before installing.

Clean the strainer with nonflammable solvent, and check to be sure the strainer screen is undamaged.

N

FUEL TUBE
FUEL PUMP
FUEL TANK TUBE

Check the fuel lines for deterioration, cracks, or signs of leakage.