

The items that are serviceable using this Manual are followed by the page number reference in parenthesis. The items that require use of the official Honda Service Manual are followed by an asterisk (*).

ENGINE DOES NOT START OR IS HARD TO START

Operate the start button with the throttle grip in fully closed position (page 17).

CHECK

1. Check the starter motor*

TURN

DOES NOT TURN

POSSIBLE CAUSES

- Loose or disconnected battery terminals (P.135)
- Blown main fuse (P.168)
- Weak battery (P.135, 169)
- Faulty starter relay switch or starter motor*
- Faulty start button*
- Faulty clutch switch
- Faulty CKP sensor*

2. Check the starter/ignition relay*

CORRECT

INCORRECT

- Faulty starter/ignition relay

3. Check the spark plug condition (P.78)

CORRECT

INCORRECT

- Incorrect spark plug heat range
- Incorrect spark plug gap
- Dirty air cleaner element

4. Try spark test*

GOOD SPARK

WEAK OR NO SPARK

- Faulty spark plug (P.78)
- Fouled spark plug (P.78)
- Faulty ECM*
- Broken or shorted spark plug wire
- Faulty alternator*
- Faulty ignition coil*
- Faulty engine stop button*
- Loose or disconnected ignition system wires
- Faulty CKP sensor*
- Faulty regulator/rectifier*

5. Check the PGM-FI system (P.7)

CORRECT

INCORRECT

- Faulty PGM-FI system (P.9)

6. Check the fuel pump operation and inspect the fuel flow*

CORRECT

INCORRECT

- Faulty fuel pump*
- Clogged fuel pump filter

7. Check the fuel injector operating sound

CORRECT

INCORRECT

- Faulty PGM-FI system (P.9)
- Faulty fuel injector

8. Test cylinder compression*

CORRECT

LOW

- Valve clearance too small
- Valve stuck open
- Worn cylinder and piston ring*
- Damaged cylinder head gasket
- Improper valve timing*
- Seized valve

9. Start by following normal starting procedure

ENGINE STARTS BUT SOON STOPS

- Insulator leaking
- Improper ignition timing (Faulty ECM or CKP sensor)*
- Fast idle knob stuck open or damaged
- Fuel contaminated

ENGINE LACKS POWER

CHECK

1. Check the wheel spin smoothness

CORRECT

INCORRECT

POSSIBLE CAUSES

- Brake dragging
- Worn or damaged wheel bearings
- Bent axle shaft
- Drive chain too tight

2. Check the tire pressure (P.119)

CORRECT

INCORRECT

- Faulty valve core
- Punctured tire

3. Check the engine speed change accordingly when clutch is engaged*

GOOD

NO GOOD

- Clutch slipping
- Improperly adjusted clutch lever freeplay (P.73)
- Worn clutch discs/plates (P.76)
- Warped clutch discs/plates (P.76)
- Weak clutch springs*
- Sticking clutch lifter
- Additive in engine oil

4. Check the engine speed increase

GOOD

NO GOOD

- Dirty air cleaner element
- Clogged muffler
- Fast idle knob stuck open or damaged
- Restricted fuel fill cap breather tube
- Restricted fuel flow

5. Check the engine knocking when accelerate or run the engine at high speed

NO

YES

- Worn piston and cylinder*
- Use of poor quality fuel
- Excessive carbon build-up in combustion chamber
- Ignition timing too advance (Faulty ECM)*
- Lean fuel mixture

6. Check the ignition timing*

CORRECT

INCORRECT

- Faulty ECM*
- Faulty CKP sensor*

7. Test cylinder compression*

CORRECT

LOW

- Valve clearance too small
- Valve stuck open
- Worn cylinder and piston ring*
- Damaged cylinder head gasket
- Improper valve timing*
- Faulty decompressor system*

8. Check the PGM-FI system (P.7)

CORRECT

INCORRECT

- Faulty PGM-FI system (P.9)

9. Check the fuel pump operation and inspect the fuel flow*

CORRECT

INCORRECT

- Faulty fuel pump unit*
- Clogged fuel pump filter

10. Check the spark plug condition (P.78)

CORRECT

INCORRECT

- Incorrect spark plug
- Incorrect spark plug gap
- Dirty air cleaner element

11. Check the engine oil level and condition (P.63)

CORRECT

INCORRECT

- Engine oil level too high
- Engine oil level too low
- Contaminated engine oil

12. Remove the cylinder head cover and inspect lubrication

INCORRECT

- Faulty oil pump*
- Faulty pressure relief valve*
- Clogged oil passage*
- Clogged oil strainer screen*

(cont'd)