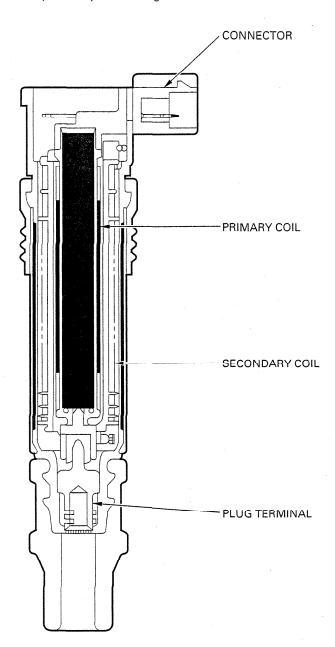
21. TECHNICAL FEATURE

COIL-INTEGRATED SPARK PLUG CAP (DIRECT IGNITION COIL)

21-1

COIL-INTEGRATED SPARK PLUG CAP (DIRECT IGNITION COIL)

The direct ignition coil is the spark plug cap with the built-in ignition coil. The spark plug wire is omitted, and the light weight and compact size ignition device is accomplished by the direct ignition coil.



21

MEMO

22. TROUBLESHOOTING

ENGINE DOES NOT START OR IS HARD TO START	22-1	POOR PERFORMANCE AT HIGH SPEED	22-4
ENGINE LACKS POWER	22-2	POOR HANDLING	22-4
POOR PERFORMANCE AT LOW AND IDLE SPEED	22-3		

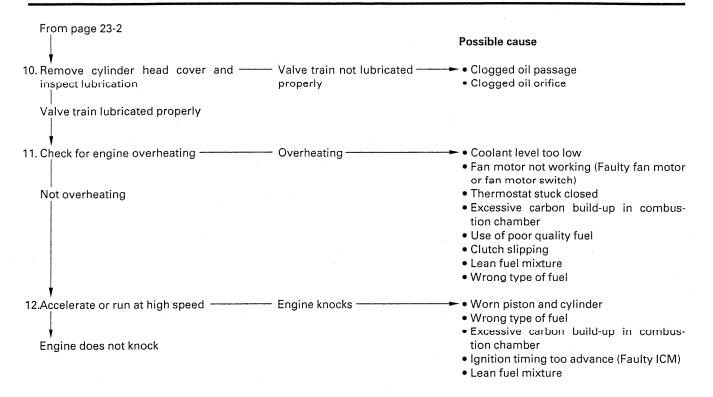
ENGINE DOES NOT START OR IS HARD TO START

Possible cause - • Clogged fuel

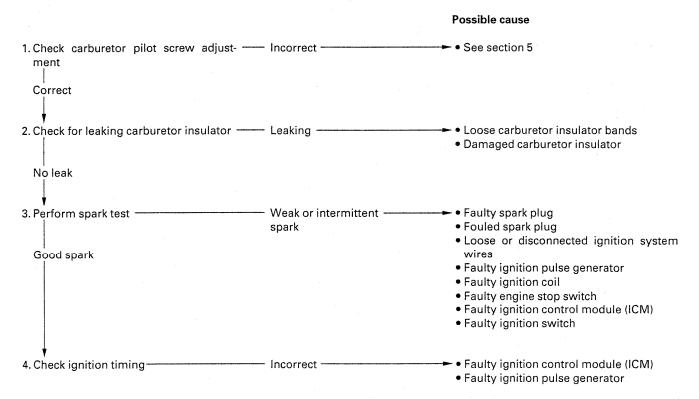
1. Check the fuel flow to carburetor Reaching carburetor	— Not reaching carburetor ———	 Clogged fuel line and filter Clogged fuel tank breather tube Sticking float valve Faulty fuel pump
2. Perform a spark test Good spark	— Weak or no spark	 Faulty spark plug Fouled spark plug Loose or disconnected ignition system wires Faulty ignition pulse generator Faulty ignition coil Faulty ignition control module (ICM) Faulty engine stop switch Faulty ignition switch
3. Remove and inspect spark plugs ————————————————————————————————————	– Wet plug ––––	 Flooded carburetor Starting enrichment (SE) valve ON position (open) Throttle valve open Dirty air cleaner
4. Start by following normal procedure Engine does not start	— Engine starts but stops ————	 Improper choke operation Incorrectly adjusted carburetor Leaking carburetor insulator Improper ignition timing (Faulty ICM or ignition pulse generator) Contaminated fuel
5. Test cylinder compression	— Low compression —————	 Valve stuck open Worn cylinder and piston rings Damaged cylinder head gasket Seized valve Improper valve timing

ENGINE LACKS POWER

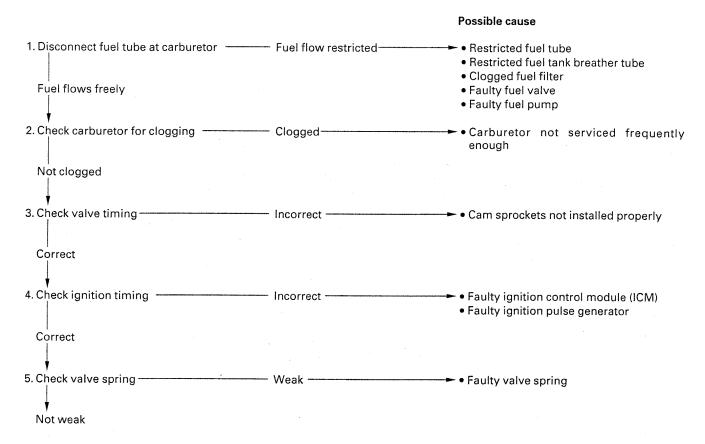
Possible cause 1. Raise wheel off the ground and spin ——— Wheel do not spin freely ———► • Brake dragging • Worn or damaged wheel bearings by hand • Drive chain too tight Wheel spins freely Pressure low 2. Check tire pressure - Punctured tire Pressure normal 3. Accelerate rapidly low to second — Engine speed doesn't — • Clutch slipping Worn clutch discs/plates change accordingly when clutch is released • Warped clutch discs/plates Engine speed reduced when clutch · Weak clutch spring is released • Additive in engine oil 4. Accelerate lightly increase position (open) • Clogged air cleaner Engine speed increase • Restricted fuel flow • Clogged muffler • Restricted fuel tank breather tube 5. Check ignition timing _____ Incorrect _ Faulty ignition control module (ICM) • Faulty ignition pulse generator Correct 6. Test cylinder compression Incorrect — Valve clearance too small • Worn cylinder and piston rings • Damaged cylinder head gasket Normal compression • Improper valve timing Carburetor not serviced frequently 7. Check carburetor for clogging — Clogged enough Not clogged 8. Remove and inspect spark plugs — Fouled or discolored — Plugs not serviced frequently enough • Incorrect spark plug heat range Not fouled or discolored Oil level too high 9. Check oil level and condition — Incorrect — • Oil level too low · Contaminated oil Correct To page 23-3



POOR PERFORMANCE AT LOW AND IDLE SPEED



POOR PERFORMANCE AT HIGH SPEED



POOR HANDLING

Possible cause 1. If steering is heavy — Steering stem adjustment nut too tight Damaged steering head bearings 2. If either wheel is wobbling Excessive wheel bearing play • Bent rim Improperly installed wheel hub Excessively worn swingarm pivot bearings • Bent frame 3. If the motorcycle pulled to one side -Front and rear wheels not aligned • Bent fork • Bent swingarm Bent axle Bent frame

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