



Frame (cont'd)

Item	N·m	ft-lb
Swingarm pivot bolt (right)	100	72
Swingarm pivot bolt (left)	18	13
Swingarm pivot lock nut	100	72
Final case filler cap	12	9
Final gear case drain bolt	12	9
Rear shock absorber bolt/nut	35	25
Air hose connector (3-way joint)	10	7
Air hose joint (right)	6	4
Air hose joint (left)	18	13
Air pressure sensor	10	7
Air hose joint (10 mm)	6	4
Air hose joint (12 mm)	11	8
Air hose joint bolt (6 mm)	10	7
Air hose joint bolt (10 mm)	10	7
Connector	6	4
Lock nut	14	10
Engine mount bolt (8 mm)	22	16
Engine mount bolt (10 mm)	35	25
Exhaust pipe nut	18	13
Footpeg bracket bolt/nut	60	43
Rear footpeg bolt	40	29
Muffler mount bolt	40	29
Gearshift pedal bolt	10	7
Rear fender mount bolt	14	10
Headlight case mount bolt	22	16
Side stand pivot bolt	22	16
Center stand pivot bolt	22	16
Exhaust muffler joint bolt	22	16

(Aspencade only)

Maintenance

Troubleshooting

Engine Will Not Crank

- Battery or charging system faulty.
- Starter or starter system faulty.
- Engine seized.
- Switches or accessory faulty.

Engine Cranks But Will Not Start

- Out of fuel or incorrect fuel.
- Engine Stop Switch OFF.
- Ignition system faulty.
- Fuel filter clogged.
- Fuel cap vent clogged.

Engine Cranks But Will Not Start— Cold Weather

- Choke setting too lean.
- Ice in fuel lines, carburetors, fuel tank, or fuel filter.
- Battery weak due to low temperature.
- Incorrect engine oil.
- Water pump iced (incorrect antifreeze ratio).

Engine Cranks But Will Not Start— Engine Hot

- Fuel flow stopped by boiling (vapor lock) in lines, carburetor, or fuel pump.
- Incorrect starting procedure.

Run-On (Continues To Run With Ignition Off)

- Excessive carbon build-up in engine.
- Intake pipe leak.
- Old or incorrect fuel.

Lack Of Power Or High Speed Performance

- Alternator voltage low or battery low.
- Ignition system faulty.
- Intake pipe leaks.
- Not enough fuel.
- Valve springs weak or broken.
- Cylinder head gasket blown.

Misfires At Idle

- Dirty air cleaner.
- Spark plugs gapped incorrectly.
- Spark plug caps faulty.
- Ignition cables deteriorated.
- Carburetor problems (choke, clogged jets, high float level, etc.).

Mid-Range Performance Poor

- Incorrect spark plug heat range.
- Faulty spark plugs.
- Ignition system faulty.
- Low engine compression.
- Low fuel pump pressure.
- Improperly adjusted throttle linkage.
- Incorrect valve adjustment.

Backfires, Explosions In Muffler

- Ignition system faulty.
- Retarded ignition timing.
- Valve timing faulty.
- Lean mixture (often due to dirt or water in fuel or intake air leak).
- Leaky or sticking intake valve or weak or broken intake valve spring.
- Tight exhaust valve(s).
- Weak or broken exhaust valve spring(s).
- Burnt exhaust valve(s).

Pre-Ignition (Mixture Ignites Before Spark Plug Fires)

- Hot spot in combustion chamber (carbon particle).
- Overheated valve (sticking in guide, improperly adjusted)
- Overheated engine.