



18.29 Remove the filler cap from the reservoir tank



19.2 Measure clutch lever freeplay at the lever tip



20.3 Adjust the idle speed with the throttle stop screw (carbureted models) or idle air screw (fuel injected models) (carburetor shown)

stops, push down on the cap and remove it completely.

22 Drain the system.

23 Fill the system with clean water, then repeat Steps 17 and 18.

Refilling and air bleeding

24 Fill the system with the correct coolant mixture (listed in this Chapter's Specifications). Fill the system to the top of the radiator cap filler neck, but leave the radiator cap off for now. Fill the reservoir to the FULL mark and install the reservoir cap.

25 Rock the vehicle from side to side to free trapped air. As the coolant level drops in the radiator, top it off with fresh coolant.

26 Start the engine and let it idle. Run the engine for several minutes so trapped air can make its way to the radiator, then shut the engine off. Top up the coolant.

27 Repeat Step 26 several times, until the coolant level in the radiator stops dropping. Once this happens, install the radiator cap. Top up the coolant reservoir to the FULL mark.

28 Run the engine for several minutes with the radiator cap on and check for leaks.

29 Warm the engine up, then shut it off and let it cool down. Recheck the level in the reservoir. Top up as needed through the reservoir filler cap (see illustration).

30 Repeat Step 29 until the coolant level in the reservoir is at the FULL mark after the engine has cooled down.

19 Clutch lever freeplay - check and adjustment



1 The clutch cable is adjusted at the clutch lever. Clutch freeplay can also be adjusted at the crankcase end of the clutch cable if adjustment at the handlebar doesn't bring freeplay within the specified range.

2 Operate the clutch lever and check freeplay at the lever tip (see illustration).

3 If freeplay isn't within the range listed in this Chapter's Specifications, pull back the adjuster cover and loosen the locknut (see illustration 5.8b). Turn the adjuster to set freeplay and tighten the locknut. Slide the cover back over the adjuster.

20 Idle speed - check and adjustment



1 Before adjusting the idle speed, make sure the spark plug gap is correct (see Section 16). Also, turn the handlebars back-and-forth and note whether the idle speed changes. If it does, the throttle cable may be incorrectly routed. Be sure to correct this problem before proceeding.

2 Start the engine and warm it up to its normal operating temperature. Make sure the transmission is in Neutral, then hook up an inductive-type tachometer.

3 Turn the throttle stop screw (carbu-

reted models) or idle air adjustment screw (fuel injected models) to bring the idle speed within the range listed in this Chapter's Specifications (see illustration). Turning the screw in increases the idle speed; backing it out decreases the idle speed.

4 Snap the throttle open and shut a few times, then recheck the idle speed. If necessary, repeat the adjustment procedure.

5 If a smooth, steady idle can't be achieved, the fuel/air mixture may be incorrect. Refer to Chapter 4 for additional carburetor or fuel injection system information.

21 Throttle cable and speed limiter - check and adjustment



Throttle cable

1 Before proceeding, check and, if necessary, adjust the idle speed (see Section 20).

2 Make sure the throttle lever moves easily from fully closed to fully open with the front wheel turned at various angles. The lever should return automatically from fully open to fully closed when released. If the throttle sticks, check the throttle cable for cracks or kinks in the housing. Also, make sure the inner cable is clean and well-lubricated.

3 Measure freeplay at the throttle lever (see illustration). If it's within the range listed in this Chapter's Specifications, no adjustment is necessary. If not, adjust it as follows.

4 Pull back the rubber boot to expose the throttle cable adjuster (see illustration). Loosen the adjuster locknut. Turn the adjuster to set freeplay, then tighten the locknut.

5 Reposition the rubber boot over the adjuster.

Speed limiter

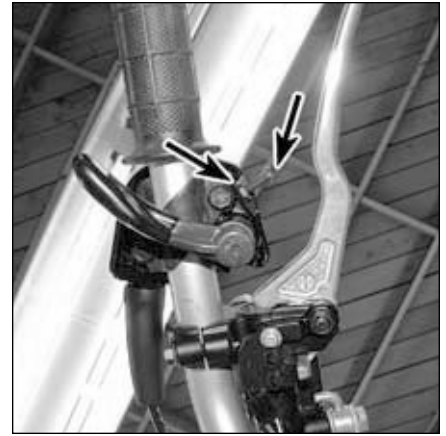
6 The speed limiter (see illustration) can be used to restrict maximum throttle



21.3 Check throttle lever freeplay at the lever tip



21.4 Slide the rubber boot (arrow) off the adjuster, loosen the locknut and turn the adjuster



21.6 To adjust the speed limiter, loosen the locknut (left arrow) and turn the screw (right arrow)

opening. Turning the screw in reduces the maximum throttle opening; backing it out increases maximum throttle opening.

7 To change the speed limiter screw setting, loosen the locknut, turn the screw in or out as necessary and tighten the locknut. Screw length is measured from the underside of the screw head to the throttle housing.



Warning: Do NOT back out the speed limiter screw farther than the maximum setting listed in this Chapter's Specifications; doing so will affect throttle lever operation.

22 Choke (carbureted models) - operation check



- 1 Operate the choke lever (see illustration) and note whether it operates smoothly.
- 2 If the choke lever doesn't operate

smoothly, inspect the choke system (see Chapter 4).

23 Battery - check



1 All models use a sealed, maintenance-free battery. Periodic checking of the electrolyte specific gravity is not possible. Inspect the battery as described in Chapter 5.

2 If the vehicle will be stored for an extended time, fully charge the battery, then remove it. Disconnect the negative cable and remove the battery retainer strap. Disconnect the positive cable and vent tube and lift the battery out.



Warning: Always disconnect the negative cable first and reconnect it last to avoid sparks which could cause a battery explosion.

3 Store the battery in a cool dark place. Check open circuit voltage (see Chapter 5) at least once a month and recharge the battery if it's low.

24 Valve clearance - check and adjustment

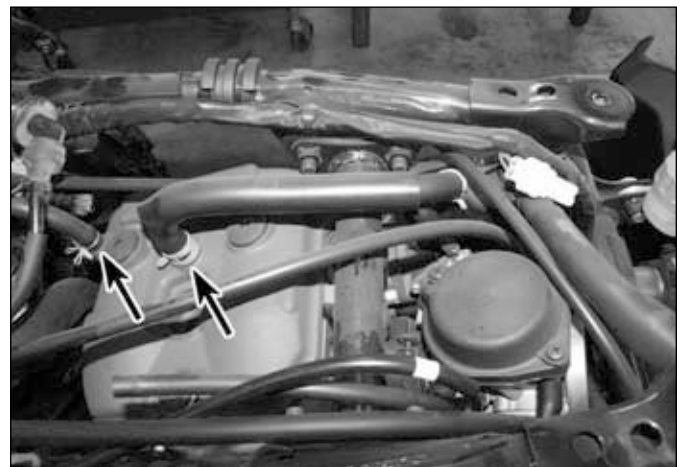


Check

- 1 The engine must be cool to the touch for this maintenance procedure, so if possible let the machine sit overnight before beginning.
- 2 Remove the seat and fuel tank cover (see Chapter 8). On 2008 and earlier models, remove the side covers. On 2009 models, remove the front fender.
- 3 Remove the fuel tank (see Chapter 4).
- 4 Disconnect the crankcase breather hose and oil tank breather hose (see illustration).
- 5 Remove the spark plug (see Sec-



22.1 Check the choke lever for smooth operation



24.4 Disconnect the hoses from the valve cover