



18.24 The cooling system air bleed bolt is located in the top of the left-hand radiator



19.2 Measure clutch lever freeplay at the lever tip



19.3a Pull the rubber boot back from the adjuster

- 20 Start the engine and allow it to reach normal operating temperature. Let it run for about ten minutes.
- 21 Stop the engine. Let the machine cool

- for awhile, then cover the radiator cap with a heavy rag and turn it counterclockwise to the first stop, releasing any pressure that may be present in the system. Once the hissing 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). To do this, unscrew the air bleed bolt from the top of the left-hand radiator (**see illustration**). Slowly fill the system to the base of the radiator filler neck, letting air flow from the bleeder bolt hole.
- 25 Once the radiator is full, install the bleeder bolt and tighten it to the torque listed in this Chapter's Specifications.
- 26 Start the engine, warm it to normal operating temperature, then shut the engine off.
- 27 Let the engine cool down completely,

then recheck the coolant level (see *Daily (pre-ride) checks* at the front of this manual). Top up the coolant to the base of the filler neck, then reinstall the radiator cap.

19 Clutch lever freeplay - check and adjustment



- 1 The clutch cable is adjusted at the clutch lever.
- 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 illustrations**). Turn the adjuster to set freeplay and tighten the locknut. Slide the cover back over the adjuster.
- 4 Clutch freeplay can also be adjusted at the mid-line adjuster in the clutch cable if adjustment at the handlebar doesn't bring freeplay within the specified range (**see illustration**). Loosen the locknut, turn the adjuster



19.3b Loosen the locknut (right arrow) and turn the adjuster (left arrow) to adjust the cable



19.4 Make major cable adjustments at the inline adjuster - loosen the locknut (left arrow) and turn the adjuster (right arrow)



20.3 Adjust the idle speed with the throttle stop screw



21.3 Check throttle lever freeplay at the lever tip

to change freeplay, then tighten the locknut.
5 If the previous steps don't bring cable freeplay within the specified range, the cable is stretched and should be replaced with a new one.

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 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 cables - check and adjustment



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 cables for cracks or kinks in the housing. Also, make sure the inner cables are clean and well-lubricated.

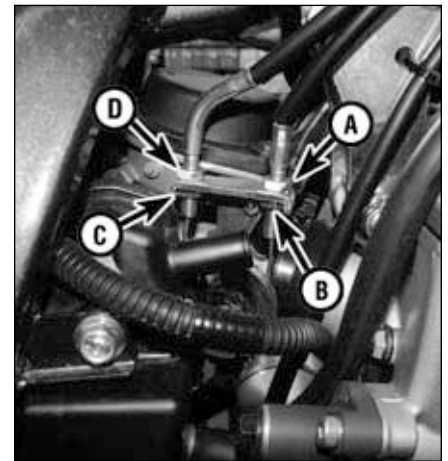
3 Measure freeplay at the throttle grip (see illustration). If it's within the range listed in this Chapter's Specifications, and the throttle performs as described in Step 2, no adjustment is necessary. If not, adjust it as follows.

4 Loosen the locknut on the return cable (see illustration). Turn the adjusting nut to give an exposed thread length (above the bracket) of 3 mm (0.12 inch), then tighten the locknut.

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

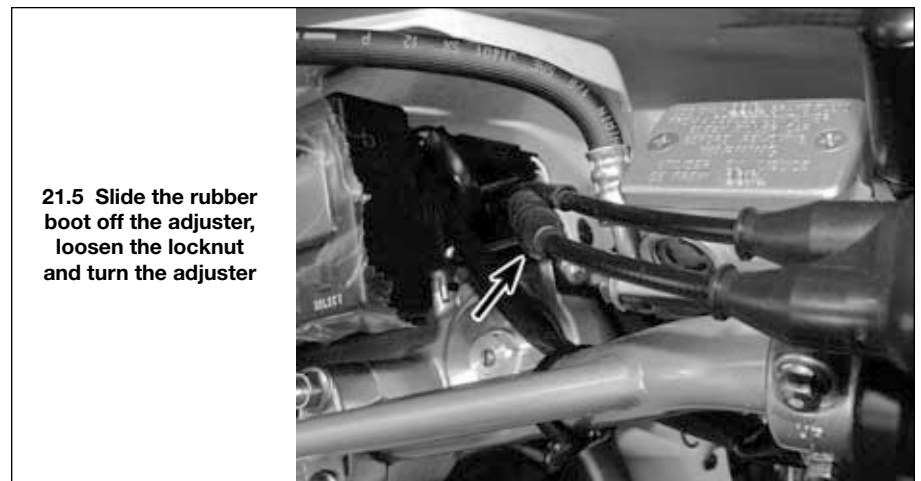
6 If the handlebar adjuster won't produce the specified result, loosen the throttle cable locknut at the carburetor bracket (see illustration 21.4). Turn the adjusting nut to obtain the specified freeplay, then tighten the locknut.

7 Reposition the rubber boot over the adjuster.



21.4 Cable adjustment points (Mikuni carburetor shown; Keihin carburetor similar)

- A Push cable locknut
- B Push cable adjuster
- C Pull cable adjuster
- D Pull cable locknut



21.5 Slide the rubber boot off the adjuster, loosen the locknut and turn the adjuster