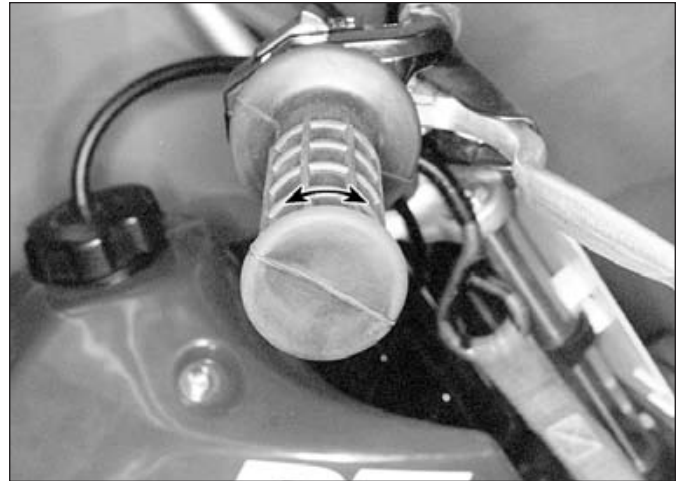




2.1 Decals on the motorcycle include maintenance and safety information



5.3 Measure throttle freeplay at the grip

## 2 Introduction to tune-up and routine maintenance

This Chapter covers in detail the checks and procedures necessary for the tune-up and routine maintenance of your motorcycle. Section 1 includes the routine maintenance schedule, which is designed to keep the machine in proper running condition and prevent possible problems. The remaining Sections contain detailed procedures for carrying out the items listed on the maintenance schedule, as well as additional maintenance information designed to increase reliability. Maintenance and safety information is also printed on decals, which are mounted in various locations on the motorcycle (**see illustration**). Where information on the decals differs from that presented in this Chapter, use the decal information.

Since routine maintenance plays such an important role in the safe and efficient operation of your motorcycle, it is presented here as a comprehensive check list. For the rider who does all of the bike's maintenance, these lists outline the procedures and checks that should be done on a routine basis.

Deciding where to start or plug into the routine maintenance schedule depends on several factors. If you have owned the bike for some time but have never performed any maintenance on it, then you may want to start at the nearest interval and include some additional procedures to ensure that nothing important is overlooked. If you have just had a major engine overhaul, then you may want to start the maintenance routine from the beginning. If you have a used machine and have no knowledge of its history or maintenance record, you may desire to combine all the checks into one large service initially and then settle into the maintenance schedule prescribed.

The Sections which outline the inspection and maintenance procedures are written

as step-by-step comprehensive guides to the actual performance of the work. They explain in detail each of the routine inspections and maintenance procedures on the check list. References to additional information in applicable Chapters are also included and should not be overlooked.

Before beginning any actual maintenance or repair, the machine should be cleaned thoroughly, especially around the oil filler plug, radiator cap, air filter cover, carburetor, etc. Cleaning will help ensure that dirt does not contaminate the engine and will allow you to detect wear and damage that could otherwise easily go unnoticed.

### 3 Engine kill switch - check



Start the engine, then use the kill switch to shut it off. If it doesn't shut off or if the engine doesn't start, refer to Chapter 5 and the wiring diagrams at the end of the book to test the switch.

### 4 Fluid levels - check



At the specified intervals, check the engine oil, coolant and brake fluid levels as described in *Daily checks* at the front of this manual.

### 5 Throttle, choke and hot start lever operation/freeplay - check and adjustment



#### Throttle check

1 Make sure the throttle twistgrip moves

easily from fully closed to fully open with the front wheel turned at various angles. The grip 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 housings. Also, make sure the inner cable is clean and well-lubricated.

2 Check and adjust the idle speed (see Section 18).

3 Check for a small amount of freeplay at the twistgrip (**see illustration**) and compare the freeplay to the value listed in this Chapter's Specifications.

#### Throttle adjustment

##### 1998 and 1999 models

4 These models use two throttle cables. The upper cable is pulled during acceleration and the lower cable is pulled during deceleration.

5 Locate the cable adjuster in the upper and lower cables near the carburetor.

6 Loosen the locknut on the lower cable adjuster. Turn the adjuster to take up any slack in the cable, then tighten the locknut.

7 Loosen the locknut on the upper cable adjuster. Turn the adjuster to obtain the freeplay listed in this Chapter's Specifications, then tighten the locknut.

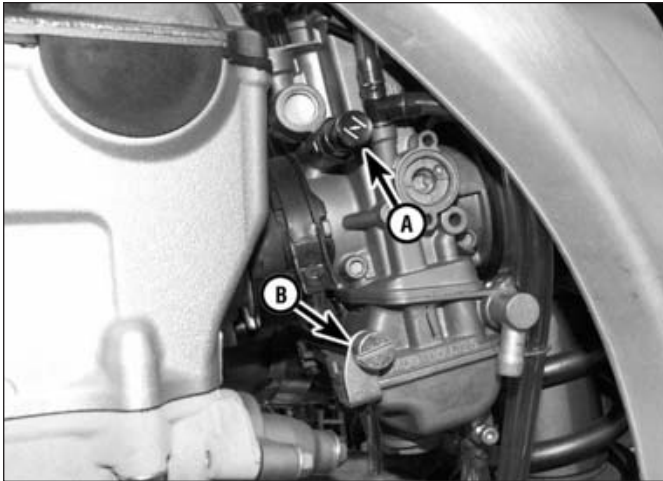
##### 2000 through 2002 models

8 These models use two throttle cables. The lower cable is pulled during acceleration and the upper cable is pulled during deceleration.

9 Locate the cable adjuster in the upper and lower cables near the carburetor.

10 Loosen the locknut on the upper cable adjuster. Turn the adjuster to take up any slack in the cable, then tighten the locknut.

11 Loosen the locknut on the lower cable adjuster. Turn the adjuster to obtain the freeplay listed in this Chapter's Specifications, then tighten the locknut.



5.13 Make sure the choke knob (A) pulls out with a click, but operates smoothly. (B) is the throttle stop screw



5.14a Measure freeplay of the hot start lever at the lever tip - slide back the cover (arrow) for access to the adjuster . . .

**2003 and later models**

12 Throttle cable adjustments are made at the throttle grip end of the cable. Pull back the rubber cover from the adjuster and loosen the locknut on the cable. Turn the adjuster until the specified freeplay is obtained, then retighten the locknut or lockwheel.

**Choke and hot start knobs - operation check**

13 Check that the choke knob moves smoothly (see illustration). If not, refer to Chapter 4 and remove the choke plunger for inspection. On models equipped with a hot start knob (colored red and located next to the choke knob), check it also.

**Hot start lever - check and adjustment**

14 Check the freeplay at the lever tip (see illustration). If it's not within the value listed in this Chapter's Specifications, pull the rub-

ber cover away from the adjuster (see illustration). Loosen the locknut, turn the adjusting nut to set the freeplay and tighten the locknut.

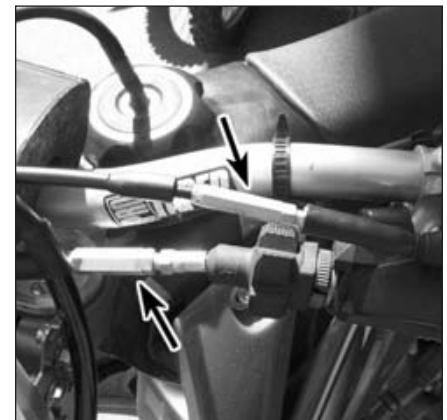
**6 Clutch and decompression levers - check and freeplay adjustment**



**Clutch lever**

1 Operate the clutch lever and measure freeplay at the tip of the lever or in the gap between the lever and bracket (see illustration), depending on model (refer to this Chapter's Specifications for the gap and measurement point). If it's not within the range listed in this Chapter's Specifications, adjust it as follows.

2 On early models, pull back the rubber cover from the adjuster at the handlebar (see illustration). Loosen the lockwheel or lock-

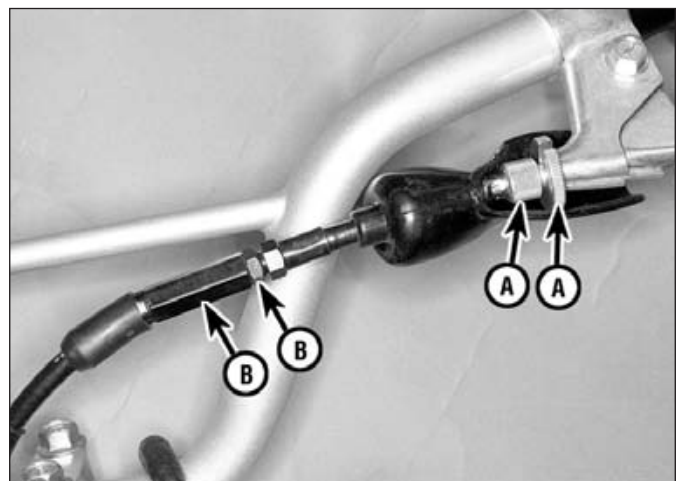


5.14b . . . loosen the locknut and turn the adjuster (upper arrow) - the lower adjuster (lower arrow) is for the clutch

nut and turn the adjuster to change freeplay.  
3 Some models are equipped with a mid-



6.1 On some models, clutch freeplay is measured at the lever gap (see this Chapter's Specifications) . . .



6.2 . . . to adjust it, loosen the locknut and turn the adjuster first at the handlebar adjuster (A), then at the mid-cable adjuster (if equipped) (B)