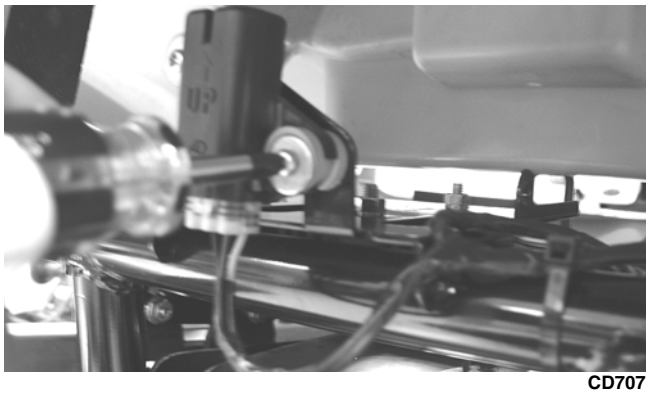
OUTPUT VOLTAGE

■NOTE: Needle adapters or a "break-out" harness will be required on the multimeter leads as the following tests are made with the sensor connected.

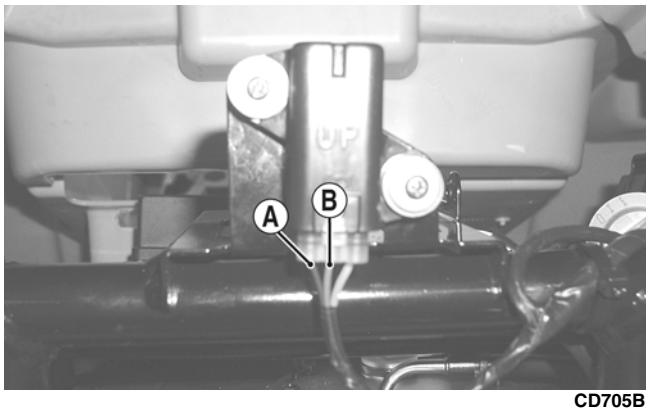
1. Connect the three-wire plug to the sensor; then remove the right-side mounting screw securing the sensor to the rear frame.



CD707

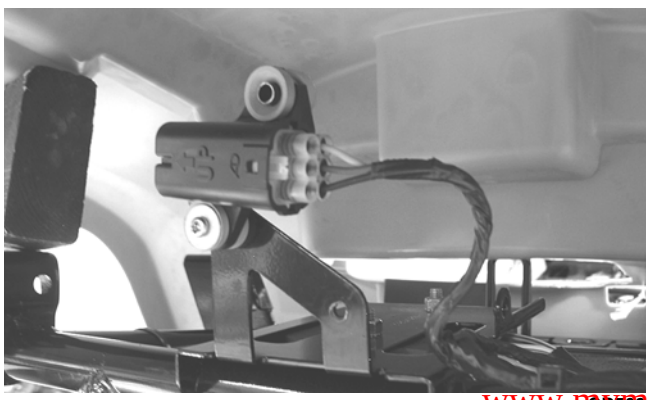
2. Install the needle adapters to the multimeter leads; then select DC Voltage on the multimeter.

3. Connect the red tester lead to the blue/brown wire (B) and the black tester lead to the black/yellow wire (A); then turn the ignition switch ON and observe the meter. The meter should read 0.3-1.5 DC volts.



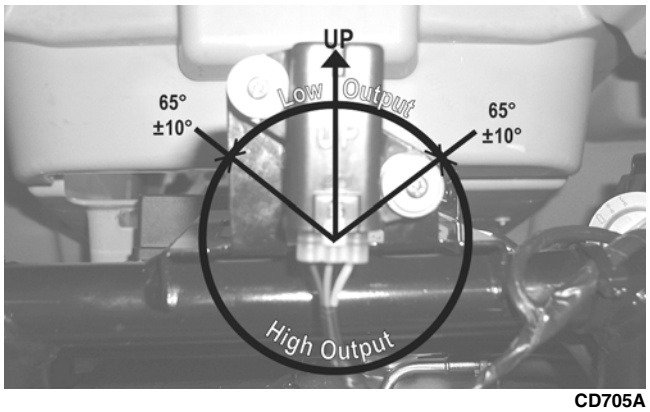
CD705B

4. Tilt the sensor 60° or more to the left and right observing the meter. The meter should read 3.0-7.0 DC volts after approximately one second in the tilted position. If the meter readings are not as specified, the tilt sensor is defective.



CD708

■NOTE: When replacing the sensor after testing, make sure the arrow marking is directed up.

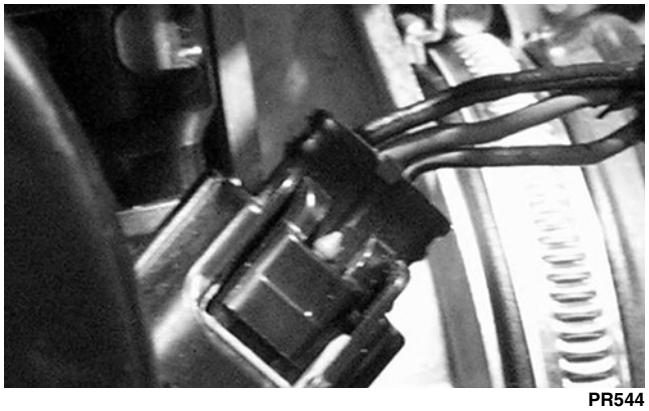


CD705A

Throttle Position Sensor (TPS) (550/700/700 Cruiser/1000)

INSPECTING

1. Remove the left-side engine cover; then disconnect the three-wire TPS connector plug.



PR544

■NOTE: Prior to testing the TPS, inspect the three-wire plug connector on the main harness and the three-pin plug on the TPS for contamination, broken pins, and/or corrosion.

2. Make sure the ignition switch is in the OFF position; then select the DC Voltage position on the meter.

3. Connect the black tester lead to terminal C and the red tester lead to terminal B. Turn the ignition switch to the ON position. The meter should read approximately 5.0 DC volts.

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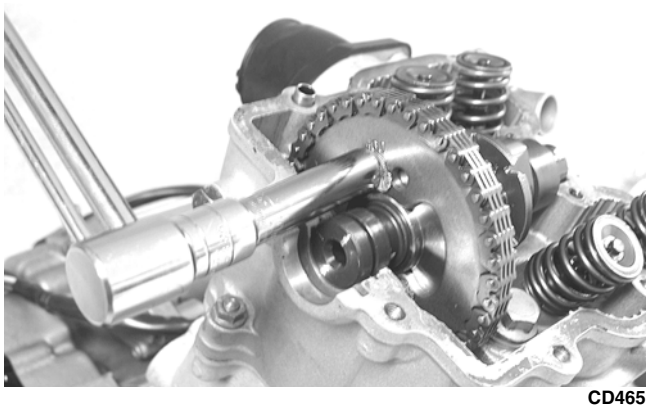
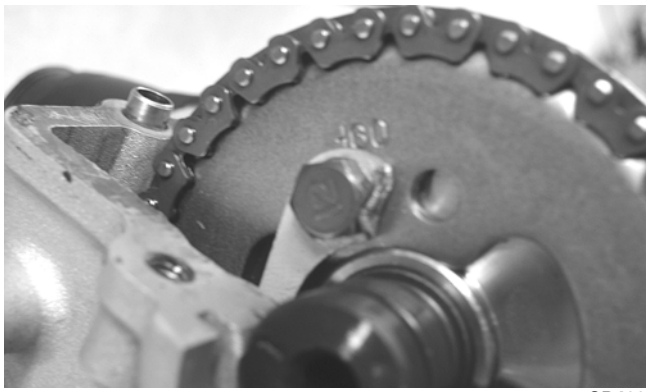


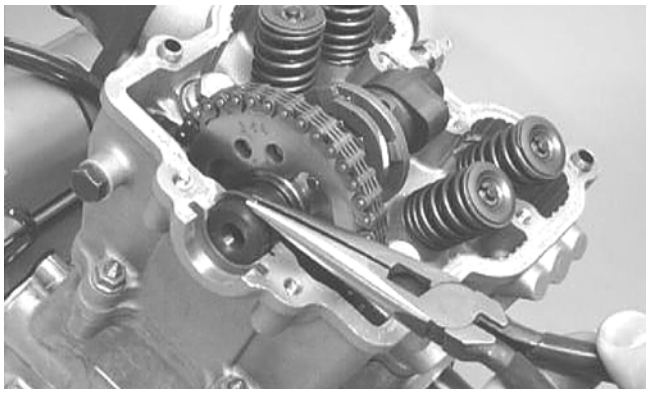
CD465

20. Rotate the crankshaft until the first cap screw (from step 18) can be accessed; then tighten to 10 ft-lb. Bend the tab to secure the cap screw.



CD466

21. Place the C-ring into position in its groove in the cylinder head.



CC012D

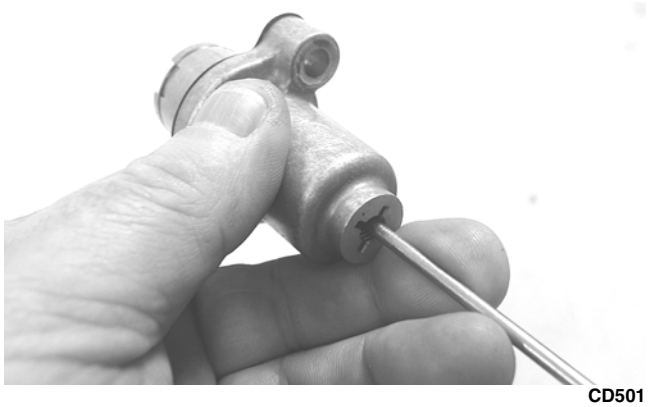
22. Install the cylinder head plug in the cylinder head with the open end facing downward and toward the inside.

CAUTION

The open end of the plug must be positioned downward.

CD468

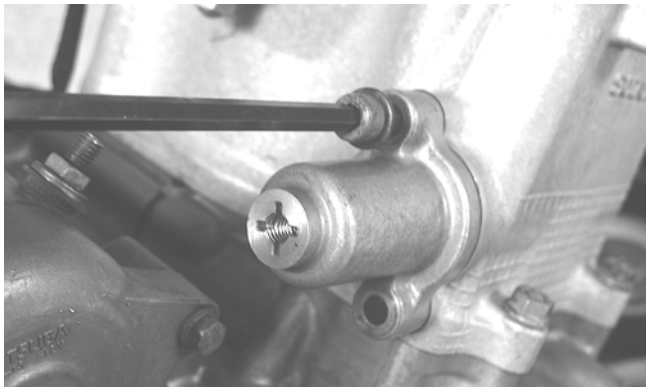
23. Remove the cap screw from the end of the chain tensioner; then using a flat-blade screwdriver, rotate the adjuster screw inside the tensioner clockwise until the screw bottoms.



CD501

■NOTE: The adjuster shaft will be drawn into the tensioner as the adjuster screw is rotated clockwise. The adjuster shaft tension will be released in step 25.

24. Place the chain tensioner adjuster assembly and gasket into position on the cylinder and secure with the two cap screws.



CD469

25. Using a flat-blade screwdriver, rotate the adjuster screw inside the tensioner counterclockwise until all tension is released; then install the cap screw into the end of the chain tensioner.