



**INTRODUCTION**

This addendum contains information for the 1982 CB900C and CB900F. Refer to the base shop manual for service procedures and data not included in this manual.

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HONDA MOTOR CO., LTD.  
Service Publications Office

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## 1. SPECIFICATIONS

Specifications that are new for the 1982 CB900C/F are listed below. See the base shop manual and the 1981 CB900C/F Addendums for complete specifications.

### CB900C

	ITEM	
FRAME	Front brake, lining swept area Rear brake, lining swept area	Double disc 942 cm <sup>2</sup> (147.6 sq. in) Single disc 516 cm <sup>2</sup> ( 80.0 sq. in)
DRIVE TRAIN	Secondary reduction (subtransmission) I (High range)	0.595 (28/47)
ELECTRICAL	Spark plug Standard For cold climate below 5°C (41°F)	DR8ES (NGK), X27ESR-U (ND) DR8ES-L (NGK), X24ESR-U (ND)

### CB900F

	ITEM	
FRAME	Gross vehicle weight rating	452 kg (995 lb)
	Cold tire pressure	Up to 90 kg (200 lbs) load
		Up to vehicle capacity load
		Front Rear
		Front Rear
		32 psi (225 kPa, 2.25 kg/cm <sup>2</sup> ) 32 psi (225 kPa, 2.25 kg/cm <sup>2</sup> ) 32 psi (225 kPa, 2.25 kg/cm <sup>2</sup> ) 41 psi (285 kPa, 2.85 kg/cm <sup>2</sup> )
DRIVE TRAIN	Primary reduction	1.000/2.042
ELECTRICAL	Spark plug Standard For cold climate below 5°C (41°F)	DR8ES (NGK), X27ESR-U (ND) DR8ES-L (NGK), X24ESR-U (ND)



## 2. MAINTENANCE SCHEDULES

### CB900C

Perform the PRE-RIDE INSPECTION in the Owner's Manual at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate, or Replace if Necessary.

C: Clean

R: Replace

A: Adjust

L: Lubricate

ITEM	FREQUENCY	WHICHEVER COMES FIRST ↓	ODOMETER READING (NOTE 3)							Refer to page
			EVERY	600 mi (1,000 km)	4,000 mi (6,400 km)	8,000 mi (12,800 km)	12,000 mi (19,200 km)	16,000 mi (25,600 km)	20,000 mi (32,000 km)	
EMISSION RELATED ITEMS	* FUEL LINES			I	I	I	I	I	I	3-3
	* FUEL STRAINER		C	C	C	C	C	C	C	26-5
	* THROTTLE OPERATION		I	I	I	I	I	I	I	3-3
	* CARBURETOR-CHOKE			I	I	I	I	I	I	3-4
	AIR CLEANER	NOTE 1		C	R	C	R	C	R	3-4
	CRANKCASE BREATHER	NOTE 2		C	C	C	C	C	C	3-5
	SPARK PLUGS			R	R	R	R	R	R	26-6
	* VALVE CLEARANCE		I	I	I	I	I	I	I	26-10
	ENGINE OIL	YEAR	R	R	R	R	R	R	R	2-3
	ENGINE OIL FILTER	YEAR	R	R	R	R	R	R	R	2-3
	* CAM CHAIN TENSION		A	A	A	A	A	A	A	25-18
	* CARBURETOR-SYNCHRONIZE		I	I	I	I	I	I	I	3-10
	* CARBURETOR-IDLE SPEED		I	I	I	I	I	I	I	3-11
	NON-EMISSION RELATED ITEMS	* DRIVE SHAFT JOINT				L		L		L
DUAL RANGE TRANSMISSION OIL					I		I		R	2-9
FINAL DRIVE OIL					I		I		R	2-12
BATTERY		MONTH	I	I	I	I	I	I	I	3-14
BRAKE FLUID		MONTH   2 YEARS* R	I	I	I	*R	I	I	*R	3-14
BRAKE PAD WEAR				I	I	I	I	I	I	26-6
BRAKE SYSTEM			I	I	I	I	I	I	I	24-7
* BRAKE LIGHT SWITCH			I	I	I	I	I	I	I	3-16
* HEADLIGHT AIM			I	I	I	I	I	I	I	3-16
CLUTCH			I	I	I	I	I	I	I	3-17
SIDE STAND			I	I	I	I	I	I	I	3-18
* SUSPENSION			I	I	I	I	I	I	I	3-19
* NUTS, BOLTS, FASTENERS			I	I	I	I	I	I	I	3-20
** WHEELS		I	I	I	I	I	I	I	3-20	
** STEERING HEAD BEARING		I	I	I	I	I	I	I	3-21	

\* Should be serviced by an authorized Honda dealer, unless the owner has proper tools and service data and is mechanically qualified.

\*\* In the interest of safety, we recommend these items be serviced only by an authorized Honda dealer.

NOTES: 1. Service more frequently when riding in dusty areas.  
2. Service more frequently when riding in rain or at full throttle.  
3. For higher odometer readings, repeat at the frequency interval established here.



**CB900F**

Perform the PRE-RIDE INSPECTION in the Owner's Manual at each scheduled maintenance period.

I: Inspect and Clean, Adjust, Lubricate, or Replace if Necessary.

C: Clean

R: Replace

A: Adjust

L: Lubricate

ITEM		FREQUENCY	WHICHEVER COMES FIRST	ODOMETER READING (NOTE 3)						Refer to page
				EVERY	600 mi (1,000 km)	4,000 mi (6,400 km)	8,000 mi (12,800 km)	12,000 mi (19,200 km)	16,000 mi (25,600 km)	
EMISSION RELATED ITEMS	* FUEL LINES				I	I	I	I	I	3-3
	* FUEL STRAINER			C	C	C	C	C	C	26-5
	* THROTTLE OPERATION			I	I	I	I	I	I	3-3
	* CARBURETOR-CHOKE				I	I	I	I	I	3-4
	AIR CLEANER		NOTE 1		C	R	C	R	C	3-4
	CRANKCASE BREATHER		NOTE 2		C	C	C	C	C	3-5
	SPARK PLUGS				R	R	R	R	R	26-6
	* VALVE CLEARANCE			I	I	I	I	I	I	26-10
	ENGINE OIL		YEAR		R	R	R	R	R	2-3
	ENGINE OIL FILTER		YEAR		R	R	R	R	R	2-3
	* CAM CHAIN TENSION			A	A	A	A	A	A	25-18
	* CARBURETOR-SYNCHRONIZE			I	I	I	I	I	I	3-10
	* CARBURETOR-IDLE SPEED			I	I	I	I	I	I	3-11
NON-EMISSION RELATED ITEMS	DRIVE CHAIN			I, L Every 300 mi (500 km)						25-20
	BATTERY		MONTH	I	I	I	I	I	I	3-14
	BRAKE FLUID		MONTH I 2 YEARS*R	I	I	I	R	I	I	3-14
	BRAKE PAD WEAR				I	I	I	I	I	25-21
	BRAKE SYSTEM			I	I	I	I	I	I	24-7
	* BRAKE LIGHT SWITCH			I	I	I	I	I	I	3-16
	* HEADLIGHT AIM			I	I	I	I	I	I	3-16
	CLUTCH			I	I	I	I	I	I	3-17
	SIDE STAND				I	I	I	I	I	3-18
	* SUSPENSION			I	I	I	I	I	I	3-19
	* NUTS, BOLTS, FASTENERS			I	I	I	I	I	I	3-20
	** WHEELS			I	I	I	I	I	I	3-20
** STEERING HEAD BEARING			I	I	I	I	I	I	3-21	

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\*\* In the interest of safety, we recommend these items be serviced only by an authorized Honda dealer.

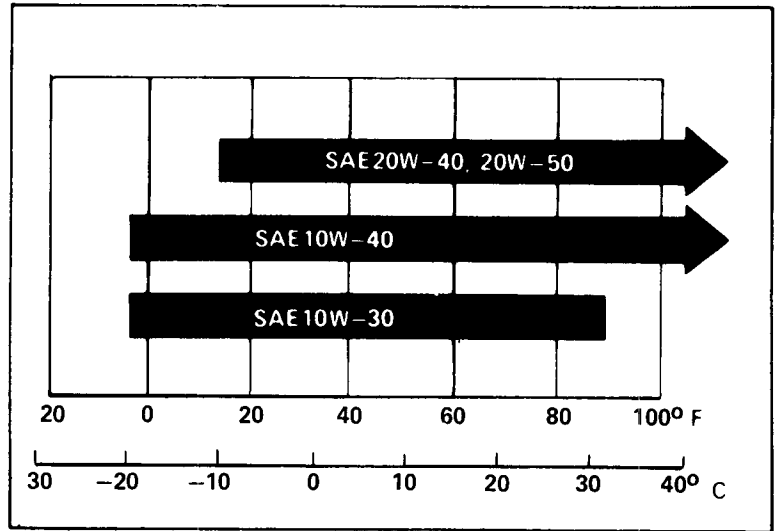
- NOTES:
1. Service more frequently when riding in dusty areas.
  2. Service more frequently when riding in rain or at full throttle.
  3. For higher odometer readings, repeat at the frequency interval established here.



### 3. OIL RECOMMENDATION

Use HONDA 4-STROKE OIL or equivalent.  
API SERVICE CLASSIFICATION: SE or SF  
VISCOSITY:  
SAE 20W-40

Other viscosities shown in the chart may be used when the average temperature in your riding area is within the indicated range.



### 4. FUEL STRAINER

Turn the fuel valve OFF.

Remove the fuel cup, O-ring and filter screen, draining the gasoline into a suitable container.

**WARNING**

*Gasoline is flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.*

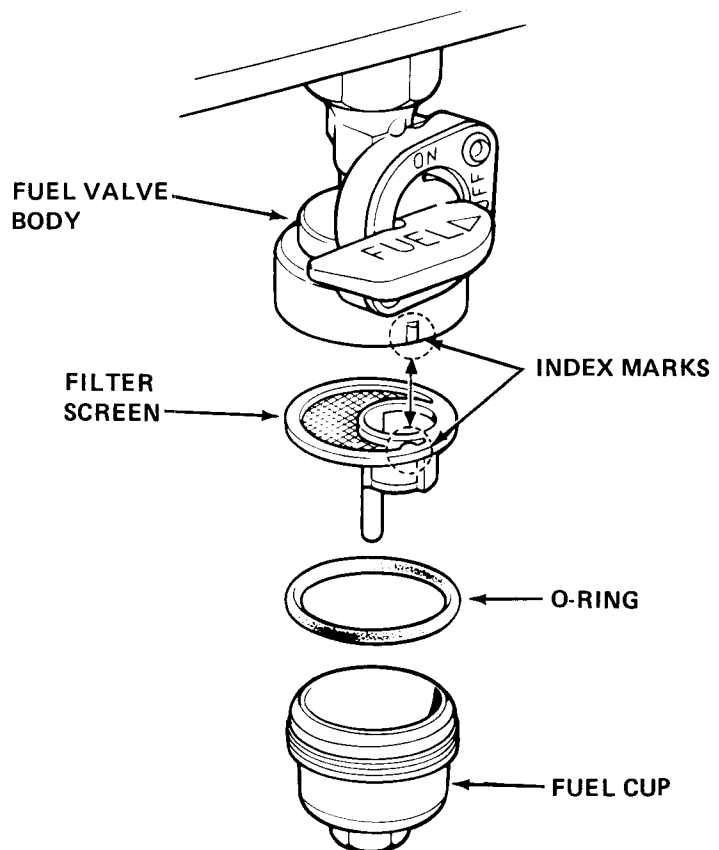
Wash the cup and filter screen in clean non-flammable or high flash point solvent.

Reinstall the screen, aligning the index marks on the fuel valve body and filter screen. Install a new O-ring into the fuel valve body. Reinstall the fuel cup, making sure the new O-ring is in place.

Hand tighten the fuel cup. Torque to specification.

**TORQUE:** 0.3–0.5 kg-m (2–4 ft-lb)

After installing, turn the fuel valve ON and check that there are no leaks.





## 5. SPARK PLUGS

### RECOMMENDED SPARK PLUGS

Standard	ND NGK	X27ESR-U DR8ES
For cold climate Below 5°C (41°F)	ND NGK	X24ESR-U DR8ES-L

Disconnect the spark plug caps.

Clean any dirt from around the spark plug bases.

Remove and discard the spark plugs.

Measure the spark plug gaps using a wire-type feeler gauge.

### SPARK PLUG GAP:

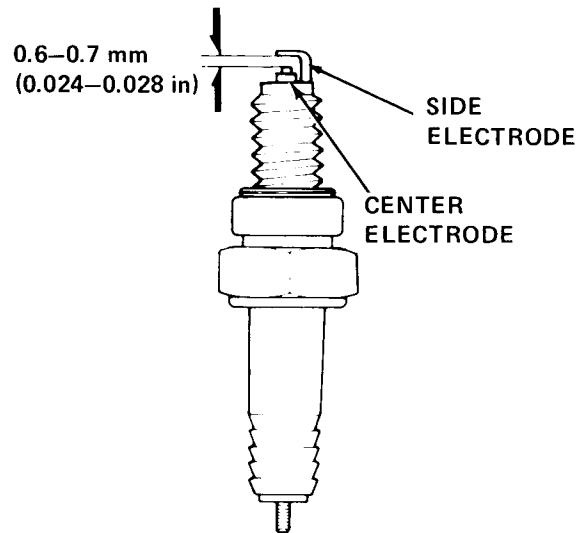
0.6–0.7 mm (0.024–0.028 in)

Adjust by bending the side electrode carefully.

With the plug washer attached, thread the spark plugs in by hand to prevent cross-threading.

Tighten the spark plugs another 1/2 turn with a spark plug wrench to compress the plug washer.

Connect the spark plug caps.



## 6. FUEL SYSTEM

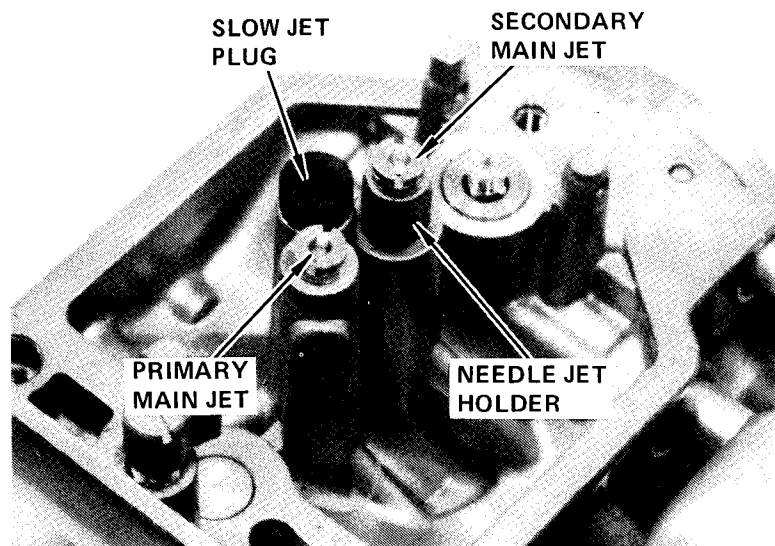
### FLOAT AND JETS

Remove the secondary main jet.

Remove the primary main jet.

Remove the slow jet plug.

Remove the slow jet.





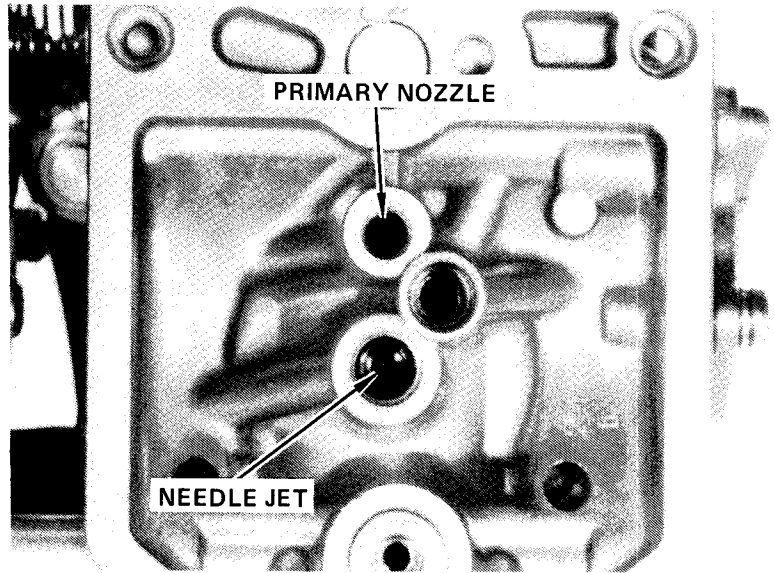
Remove the primary nozzle.

Remove the needle jet holder.

Tilt the carburetor to remove the needle jet.  
Blow all jets and body passages with compressed air.

**NOTE**

If the needle jet is difficult to remove, carefully press the needle jet from the cylinder side with a non-metallic object to prevent damage to the needle jet.

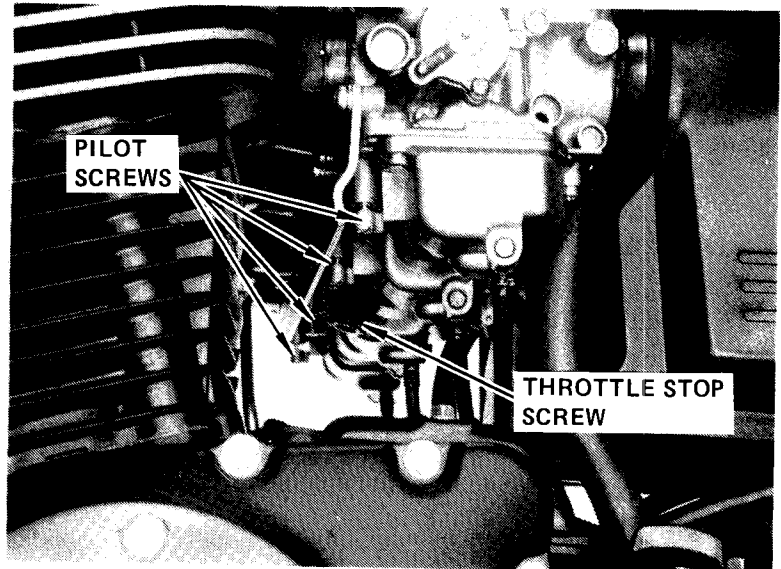


**HIGH ALTITUDE ADJUSTMENT**  
**(USA only)**

When the vehicle is to be operated continuously above 6,500 feet (2,000 m), the carburetors must be readjusted as described below to improve driveability and decrease exhaust emissions.

Warm up the engine to operating temperature.

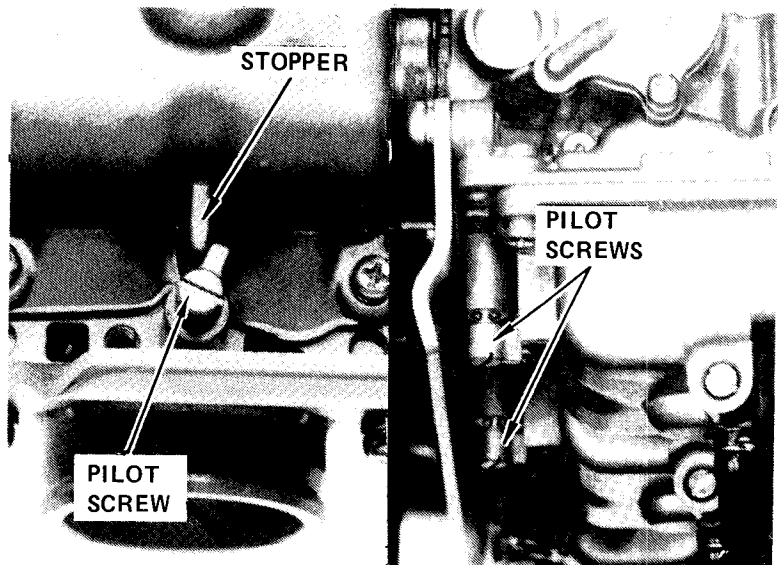
Stop-and-go driving for 10 minutes is sufficient to warm the engine.



Turn each pilot screw clockwise 1/2 turn. Adjust the idle speed to 1,000 ± 100 rpm with the throttle stop screw.

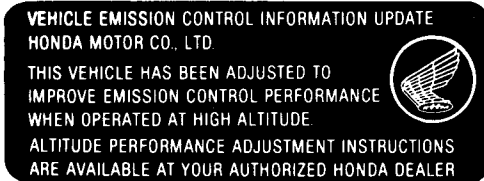
**NOTE**

These adjustments must be made at high altitude to ensure proper high altitude operation.

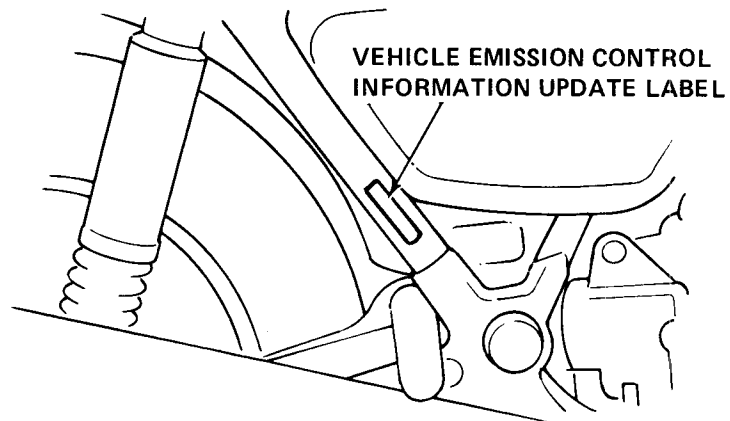
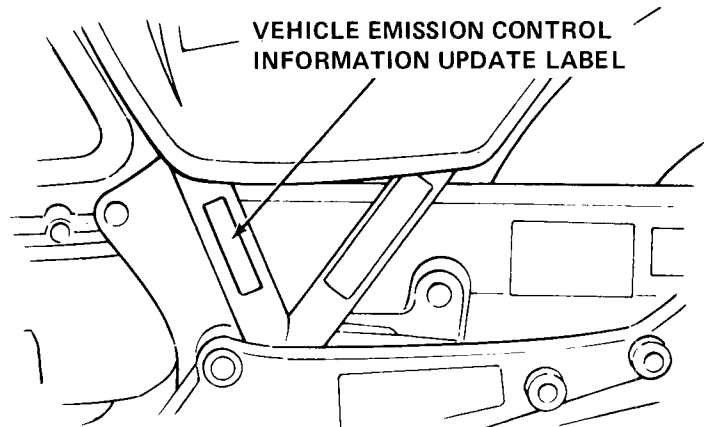




Attach the Vehicle Emission Control Information Update label as shown. Refer to Service Letter # 132.


**NOTE**

Do not attach the label to any part that can be easily removed from the vehicle.

**CB900C**

**CB900F**

**WARNING**

*Operation at any altitude lower than 5,000 feet (1,500 m) with the carburetors adjusted for high altitudes may cause the engine to idle roughly and stall.*

When the vehicle is to be operated continuously below 5,000 feet (1,500 m), turn each pilot screw counterclockwise to its original position against its stop. Adjust the idle speed to  $1,000 \pm 100$  rpm. Be sure to do these adjustments at low altitude.

## 7. HYDRAULIC BRAKES

### SERVICE INFORMATION

The front and rear CB900C disc brakes have dual piston calipers.

**SPECIFICATIONS**
**CB900C**

ITEM	DATA	STANDARD	SERVICE LIMIT
Front caliper piston O.D.		30.148–30.198 mm (1.1869–1.889 in)	30.14 mm (1.866 in)
Front caliper cylinder I.D.		30.230–30.280 mm (1.1901–1.1921 in)	30.29 mm (1.1925 in)
Rear caliper piston O.D.		26.918–26.968 mm (1.0597–1.0617 in)	26.91 mm (1.0594 in)
Rear caliper cylinder I.D.		27.000–27.05 mm (1.0629–1.0649 in)	27.06 mm (1.0653 in)



## BRAKE PAD WEAR

### CB900C

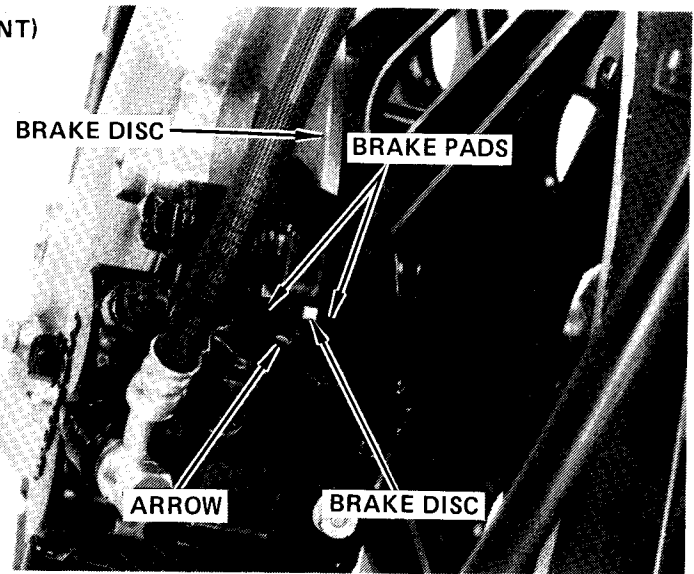
Check the brake pads for wear by looking through the slot pointed to by the arrow cast on the caliper assembly.

Replace the brake pads if the pads are worn to the wear line.

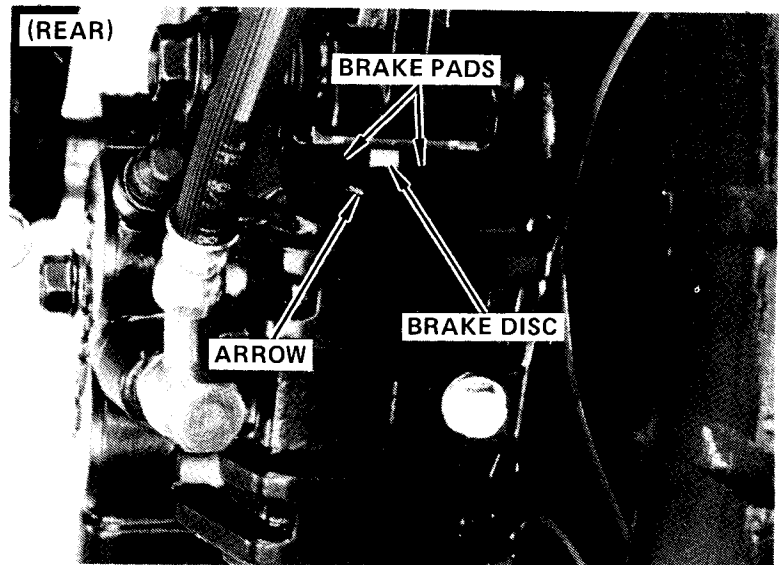
### CAUTION

*Always replace the brake pads in pairs to assure even disc pressure.*

(FRONT)



(REAR)





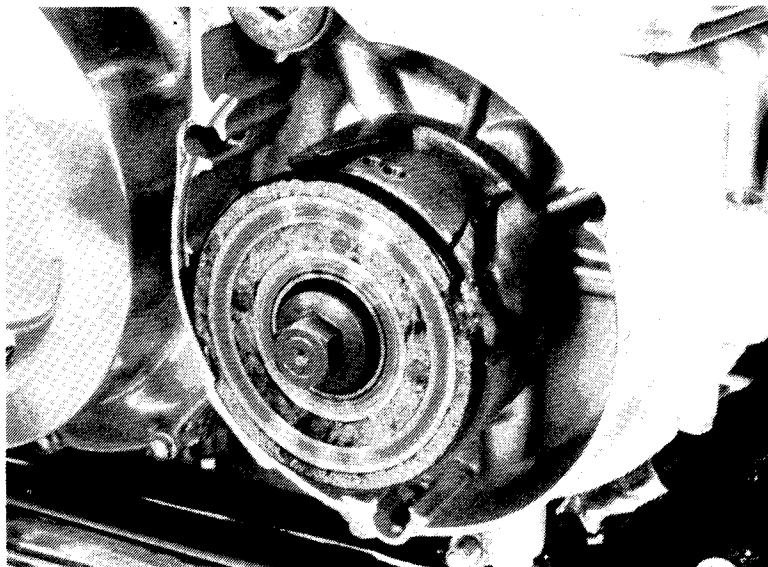
## 8. VALVE CLEARANCE

NOTE: Inspect valve clearance while the engine is cold (below 35°C; 95°F).

Remove the fuel tank, side covers, tachometer cable and spark plug caps. Drain the engine oil.

Lean the motorcycle to the right and left to drain residual oil from the cylinder head, then remove the cylinder head cover.

Remove the AC generator cover.

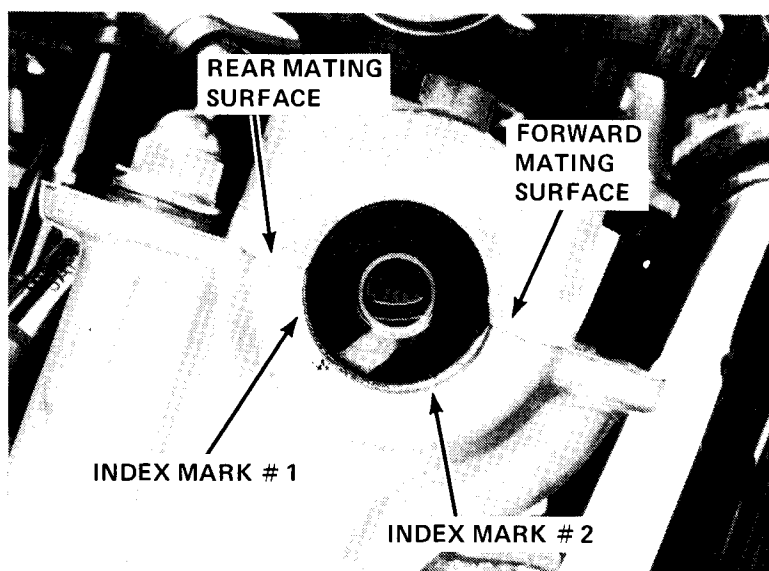


Rotate the crankshaft clockwise to align index mark # 1 on the exhaust camshaft right end with the forward cylinder head mating surface. Measure the clearance of the No. 1 and No. 3 exhaust valves by inserting a feeler gauge between the camshaft and the valve lifter shim.

Rotate the crankshaft clockwise and align index mark # 2 with the forward mating surface. Check the clearance of the No. 1 and No. 3 intake valves.

Rotate the crankshaft clockwise and align index mark # 1 with the rear cylinder head mating surface. Measure the clearance of the No. 2 and No. 4 exhaust valves.

Rotate the crankshaft once more and align index mark # 2 with the rear mating surface. Measure the No. 2 and No. 4 intake valve clearances.



### VALVE CLEARANCE (cold):

0.06–0.13 mm (0.002–0.005 in)

If clearances are not within the specified range, see "Adjustment", page 25-16.

