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M E M O

19. SUPPLEMENT TO CB500K3/CB550K3 ('77)

Engine No. CB550E—2000001 and subsequent

Frame No. CB550K—2000001 and subsequent

Engine No. CB500E—2200001 and subsequent

Frame No. CB500—1000001 and subsequent

1. CARBURETOR

A. Removal and installation

1. Turn the fuel valve lever to the "OFF" position and disconnect the fuel tube at the fuel valve and remove the over flow tube.
2. Open the seat and remove the fuel tank.
3. Remove the air cleaner case.
4. Remove the choke and throttle cables from the cable holders and disconnect them from each shaft lever.



Fig. K3-1 ① Choke cable
② Throttle cables
③ Cable holders

5. Loosen the carburetor insulator bands and the air cleaner connecting bands. Take the carburetor assembly out.
6. To install the carburetor assembly, reverse the removal procedure.

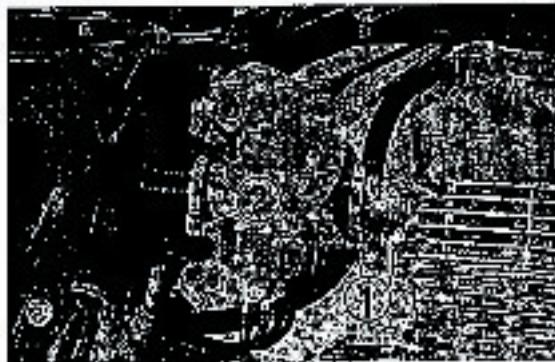


Fig. K3-2 ① Carburetor insulator band
② Air cleaner connecting band



Fig. K3-3 ① Bolt ② Rear stay

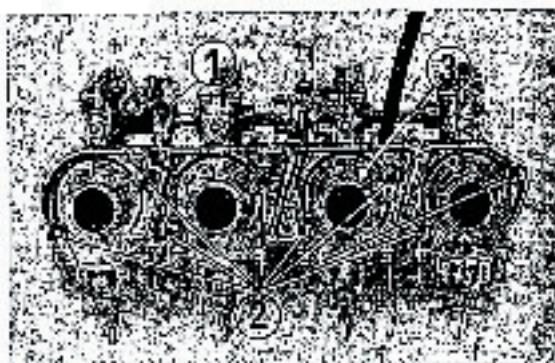
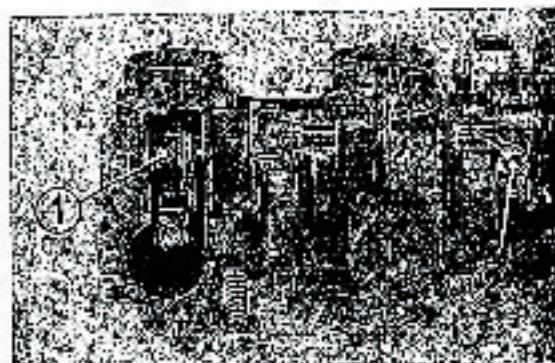
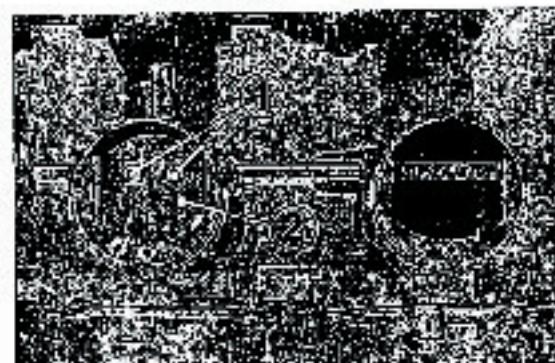
Fig. K3-4 ① Throttle return spring
② Screw ③ Stay plateFig. K3-5 ① Link arm fixing screw
② Set screw ③ Lock nut

Fig. K3-6 ① Screw ② Choke valve

B. DisassemblyCarburetor, throttle valve and jet needle:

1. Remove the carburetor assembly from the engine.
2. Remove the rear stay from the carburetor assembly by removing the four bolts.
3. Unhook the throttle return spring from the stopper arm. Remove the stay plate by removing the eight screws. Unhook the choke relief spring at the choke lever.
4. Remove the carburetor top by removing the two screws. Loosen the link arm fixing screw. Loosen the lock nut and remove the throttle lever set screw.
5. Remove the choke valve from the choke shaft by removing the two screws.
6. Separate the carburetors.

7. Remove the link arm assembly from the carburetor.
8. Remove the two screws and remove the throttle valve and jet needle from the link arm.

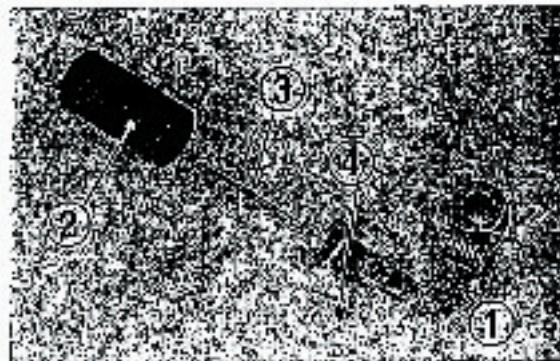


Fig. K8-7 (1) Link arm (2) Jet needle
 (3) Throttle valve (4) Screw

Float, main jet and slow jet:

1. Remove the carburetor assembly from the engine.
2. Remove the three screws and the float chamber body from the carburetor.
3. Remove the float and float valve by pulling the float arm pin out.
4. Remove the main jet and slow jet.



Fig. K8-8 (1) Float arm pin (2) Main jet
 (3) Slow jet
 (4) Float valve

C. Assembly

To assemble the carburetors reverse the disassembly procedure. Observe the following notes:

1. Install the throttle valve to the link arm so that the throttle valve cutaway faces the choke valve when it is installed in the carburetor body.
2. The link arm which is not equipped with the adjusting screw should be installed in the No. 2 carburetor.



Fig. K8-9 (1) Throttle valve cutaway

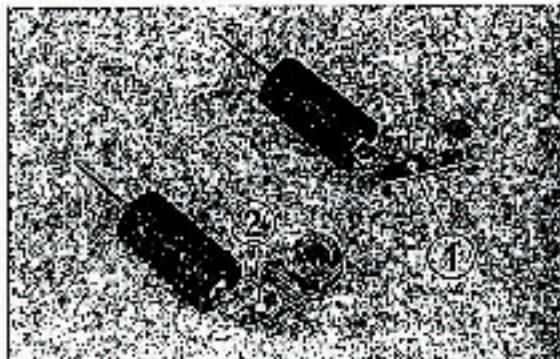


Fig. K8-10 (1) Link arm for No. 2 carburetor
 (2) Link arm for No. 1, 3 and 4 carburetors



Fig. K3-11

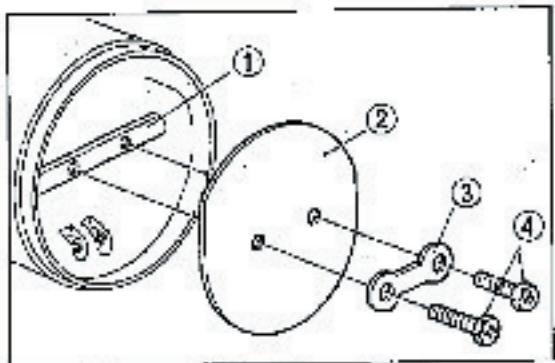


Fig. K3-12 ① Choke shaft
② Choke valve
③ Lock washer
④ Hex head screw

- Install the choke shaft levers and springs as shown in Fig. K3-11.

- Install the choke valve to the choke shaft by using the lock washer and hex head screws. Bend the lock tabs to lock the screws.

NOTE:

The choke valve securing screws are peened when assembling the carburetor at the factory. Discard the used screws.

D. Carburetor setting table

Item	CB550K3	CB500K3
Main jet	#90	#90
A'ir jet	#180	#120
Slow jet	#38	#42
Slow air jet	#150	#150
Jet nozzle setting	3rd groove E2349F	2nd groove E2350F
Float height	14.5mm (0.57in.)	14.5mm (0.57in.)

E. Adjustment

Idle speed:

Make the adjustment with the engine warmed up.

- Adjust the idle stop screw to allow the engine to run at the idle speed of 1050 rpm.
- Turn the pilot screws either in or out to obtain the highest idle speed. Usually the correct setting will be found to be $1\frac{1}{2}$ turns open from a fully closed position.
- If idle speed changes after adjusting the pilot screw, readjust the idle stop screw.



Fig. K3-13 ② Idle stop screw
③ Pilot screw

Synchronizing carburetors:

1. Remove the fuel tank. Position the fuel tank higher than the carburetors and reconnect with a longer fuel tube.
2. Connect the vacuum gauge set to the carburetors.
3. Run the engine at the specified idle speed and read the vacuum. The vacuum gauge readings should be the same on all four gauges.
4. To adjust, proceed as follows:
 - a. Remove the carburetor tops from the No. 1, 3 and 4 carburetors.
 - b. Loosen the lock nut and turn the adjusting screw until the vacuum reading is the same as the No. 2 carburetor reading.

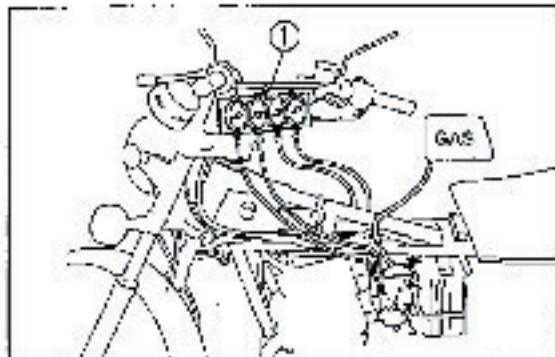


Fig. K3-14 ① Vacuum gage set

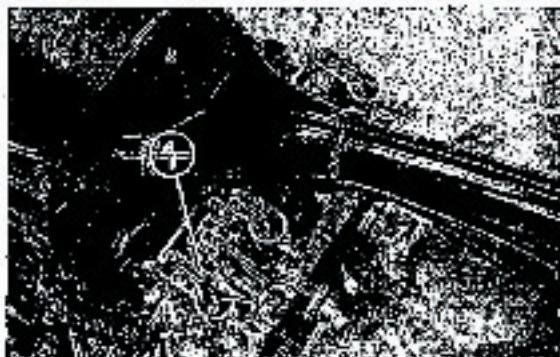
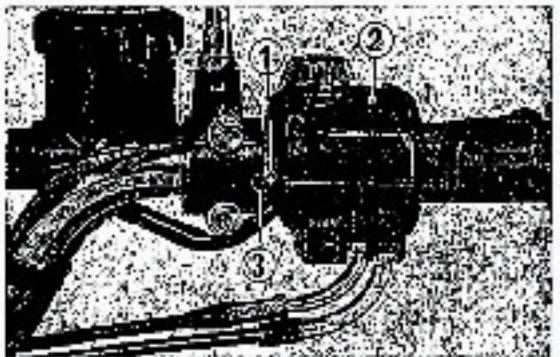
Fig. K3-15 ① Lock nut
② Adjusting screw

Fig. K3-16 ① Adjusting screw

Fig. K8-17 ① Punch mark
② Switch housing
③ Aligning mark on holder**2. SWITCH HOUSING**

When installing the right or left switch housing, align the mating edges of the housing with the punch mark on the handlebar and tighten the two screws securely.

The aligning mark on the brake lever bracket holder should also be lined up with the punch mark.



3. SERVICE DATA

	Standard value	Service limit
Front shock absorber spring free length	440.3 mm (17.45 in.)	430.5 mm (16.18 in.)
Rear shock absorber spring free length	210.4 mm (8.26 in.)	205 mm (8.07 in.)
Front brake	Caliper cylinder I.D.	38.18-38.22 mm (1.503-1.505 in.)
	Caliper piston O.D.	38.115-38.148 mm (1.501-1.505 in.)
		38.105 mm (1.500 in.)

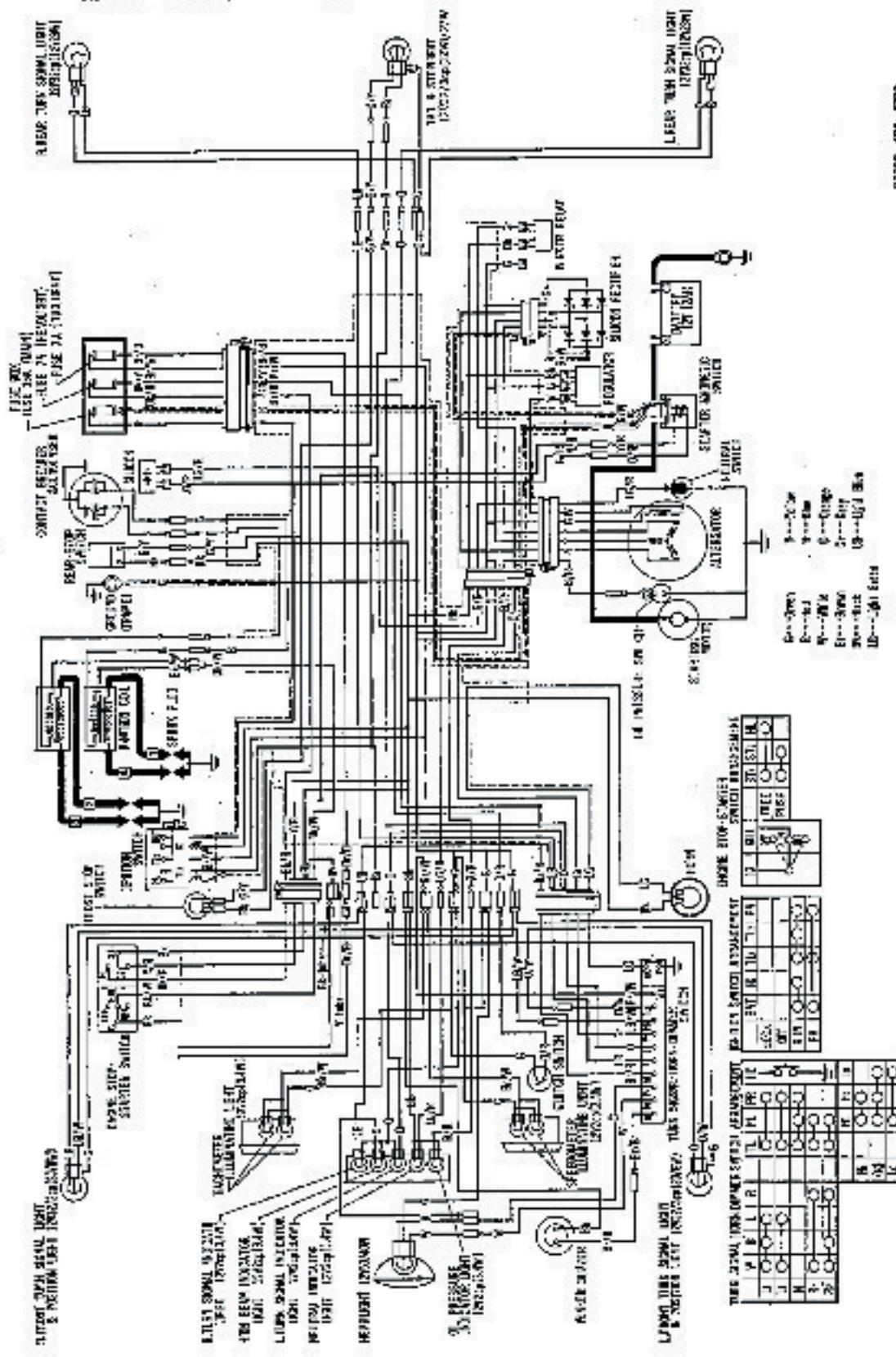
4. SPECIFICATIONS (CB500K2/CB550K3 '77)

Item	Type	U.S.A. (Canada)	General and Australia	Europe (CEEC)	France
DIMENSION					
Overall Length		2,160 mm (84.7 in.)		2,160 mm	2,165 mm
Overall Width		825 mm (32.5 in.)		750 mm	
Overall Height		1,115 mm (44.3 in.)		1,130 mm	
Wheel Base		1,405 mm (55.5 in.)			
Seat Height		800 mm (31.5 in.)		825 mm (32.5 in.)	
Ground Clearance			180 mm (6.3 in.)		
Dry Weight		183.5 kg (406 lb.)		196 kg	
FRAME					
Type		Double cradle frame			
F. Suspension, Travel		Telescopic fork, travel 121 mm (4.8 in.)			
R. Suspension, Travel		Swing arm, travel 90.0 mm (3.5 in.)			
F. Tire Size, Type		3.25S16-4P R/T, tire air pressure 1.75/2.0 kg/cm ² (25/30 psi)			
R. Tire Size, Type		3.75S16-4P Block, tire air pressure 2.0 /2.5 kg/cm ² (29/36 psi)			
F. Brake		Disc brake			
R. Brake		Internal expanding shoe			
Fuel Capacity		18.0 lit. (4.7 U.S. gal. 2.5 Imp. gal.)			
Fuel Reserve Capacity		4.0 lit. (1.0 U.S. gal. 0.81 Imp. gal.)			
Caster Angle		62°			
Tail Length		104 mm (4.1 in.)			
ENGINE					
Type		Air-cooled 4-stroke O.H.C. engine			
Cylinder Arrangement		4 cylinder in line			
Bore and Stroke		74.5 × 60.6 mm (2.936 × 2.392 in.) (2.960 × 2.388 in.)			
Displacement		564 cc (33.18 cu.-in.) (35.8 cu.-in.)			
Compression Ratio		9:1			
Carburetor, Venturi Dia.		Pour Piston valve type, venturi dia. 25mm (0.855 in.)			
Valve Train		Chain-driven overhead camshaft			
Oil Capacity		5.0 lit. (1.34 U.S. qt 1.10 Imp. qt)			
Lubrication System		Forced pressure and wet sump			
Fuel Required		Low-lead gasoline with 81 octane number or higher			
Air Filter		Paper filter			
Intake Valve		5° BTDC			
Open		35° ABDC			
Close					
Exhaust Valve		25° BTDC			
Open		5° ATDC			
Close					
Valve Tappet Clearance		IN: 0.05 mm, EX: 0.06 mm (IN: 0.002 in, EX: 0.003 in.)			
Pilot Screw Opening		1 1/8±1/8			
Idle Speed		1050 rpm			

Item	
DRIVE TRAIN	
Gear:	Wet multi-plate
Transmission	5-Speed constant mesh
Primary Reduction	3.038
Gear Ratio I	2.333
II	1.833
III	1.299
IV	1.033
V	0.900
Final Reduction	2.175, Drive sprocket 17T, driven sprocket 37T
Gear Shift Pattern	Left foot operated return system
ELECTRICAL	
Ignition	Battery and ignition coil
Ignition Advance:	
"P" mark	F BTDC
Max. advance	20°~22° BTDC
PPM from "F" to max. advance	1,900~6,500 rpm
Dwell Angle	130°~15°
Starting System	Starting motor and kick starter
Alternator	A.C. Generator 0.18 kw/4,000 rpm
Battery	12 V-12 AH
Spark plug	NGK DR7ES or ND X22ES [NGK DR7ES or ND X22ESR-V]
Condenser Capacity	0.02~0.24 μ F

5. WIRING DIAGRAM

CH550-K3 '77 (U.S.A. Type and Canada Type)



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CB500K3/CB550K3 '77 (Europe Type)

