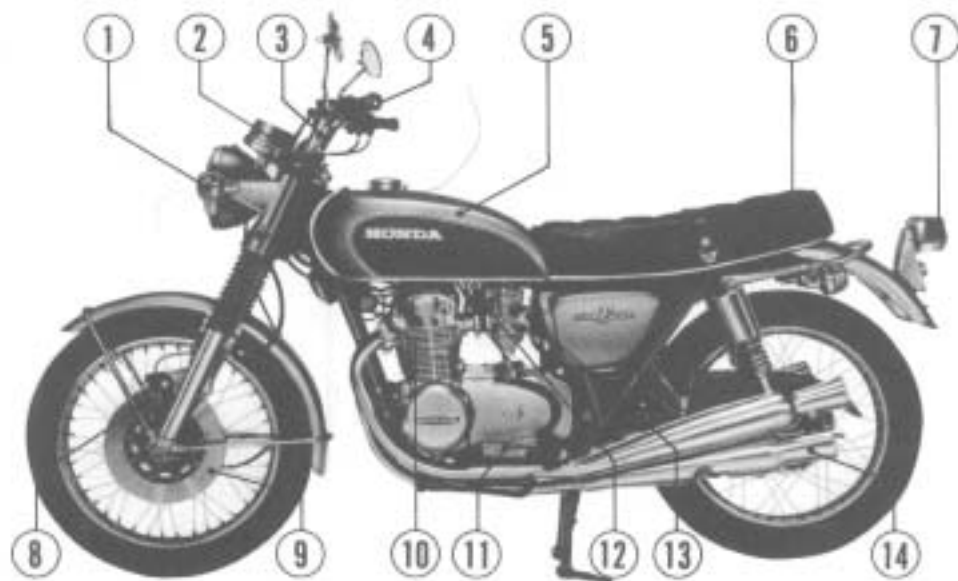


## **CB500 SET-UP PROCEDURES**

These instructions are applicable to MODEL CB500. After the unit has been removed from the shipping crate, the tools contained in the tool kit may be used to assemble the unit.

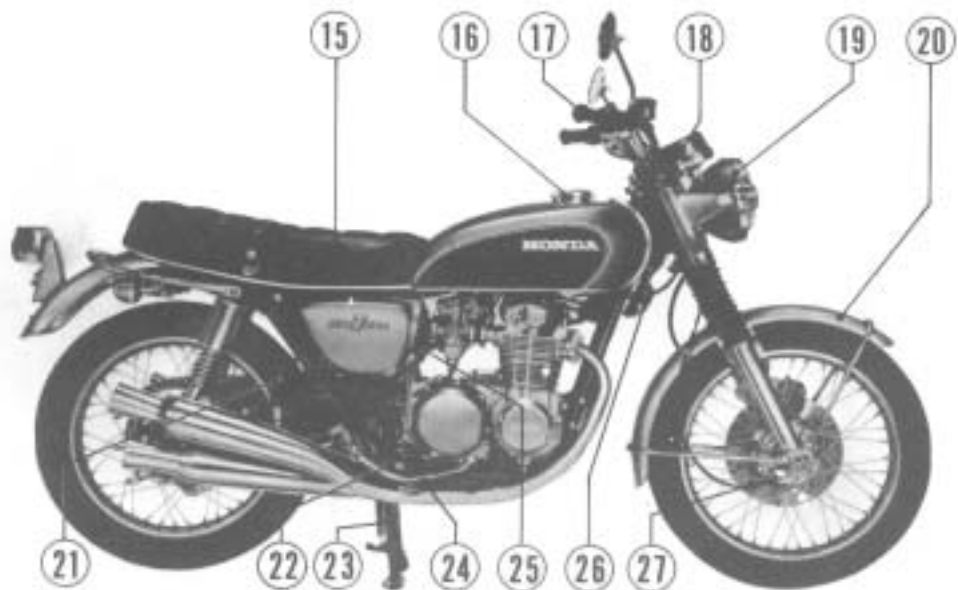
### **CAUTION**

DO NOT ACTUATE FRONT BRAKE LEVER BEFORE INSTALLING FRONT WHEEL. If the lever is inadvertently actuated the movable brake pad in the caliper assembly over-extends, making it impossible to insert the front wheel and brake disc assembly. If this occurs, it will be necessary to disassemble the front brake caliper to re-position the movable brake pad.



#### Parts Names

- ① Turn signal lamp
- ② Speedometer
- ③ Handlebar ass'y.
- ④ Clutch lever
- ⑤ Fuel tank
- ⑥ Seat
- ⑦ Tail light
- ⑧ Front brake caliper
- ⑨ Front brake disc plate
- ⑩ Main key switch
- ⑪ Gear change pedal
- ⑫ Fuel control valve and fuel strainer
- ⑬ Choke lever
- ⑭ Muffler



- ⑮ Air cleaner element (under the seat)
- ⑯ Fuel tank cap
- ⑰ Throttle grip
- ⑱ Tachometer
- ⑲ Headlight
- ⑳ Front fender
- ㉑ Footrest—passenger
- ㉒ Footrest
- ㉓ Center stand
- ㉔ Rear brake pedal
- ㉕ Kick starter pedal
- ㉖ Horn
- ㉗ Speedometer cable



① Band ② Arrows

**Step 1** Set shipping crate in the upright position as shown by the arrows. Cut the 4 binding bands.



**Step 2** Pull the carton out of the crate.



③ Top slats

**Step 3** Remove the 4 top slats of crate and pull off the 4 top slat supports.



**Step 4** Take out all nails and remove boards on both sides.

**Note:** Take out meter ass'y and wood mount as a unit. Be careful not to drop it.

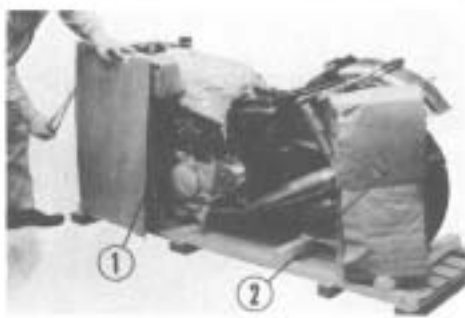


① Frame support angles

**Step 5** Take out 2 frame braces.

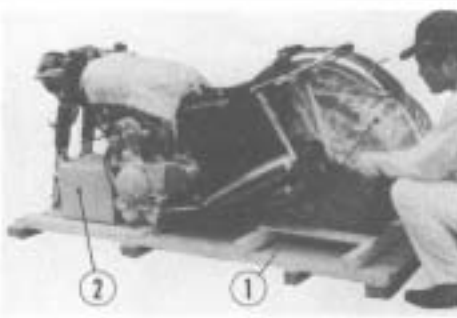


**Step 6** Take out vinyl cover.



① Front wheel ② Seat

**Step 7** Take off rubber band and remove front wheel and seat.

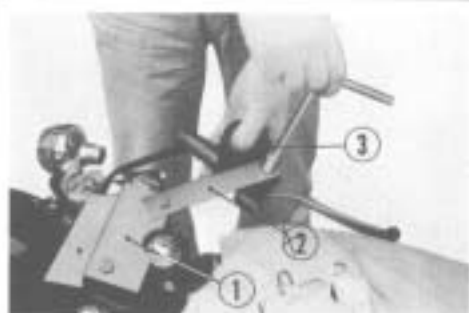


① Front fender ② Parts carton

**Step 8** Remove front fender and parts carton.



**Step 9** Remove rear metal frame fasteners. Leave all screws attached as they are.



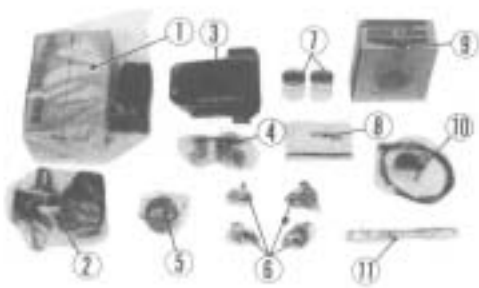
① Handlebar fixing plate ② Master cylinder fixing plate ③ Master cylinder

**Step 10** Remove metal plates fixing handlebar and master cylinder to front frame.

**Note:** Be careful not to press the master cylinder lever.



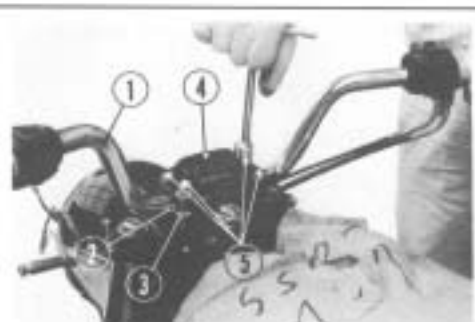
① Parts case ② Seat ③ Meter ass'y.  
④ Front fender ⑤ Front wheel



**Parts case contents:**

① Tool bag and back mirrors ② Taillight ass'y. ③ Tool tray ④ Handle upper holder ⑤ Front turn signal (L) ⑥ Screws  
⑦ Paint can ⑧ Manual ⑨ Battery  
⑩ Meter cable ass'y. ⑪ Front wheel axle shaft

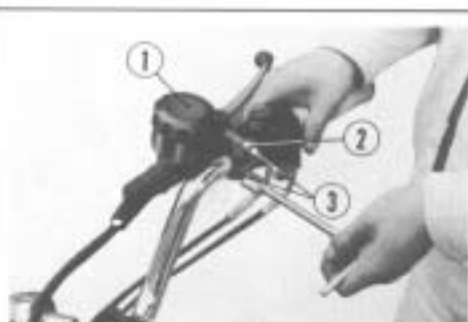
**Step 11** Check that no parts are missing or damaged.



- ① Handle pipe ② Punch mark ③ Opening  
④ Handle holder ⑤ 8×40 bolts (4), 8mm washers (4)

**Step 12** Attach handlebar to top bridge, then install and fasten handlebar holder.

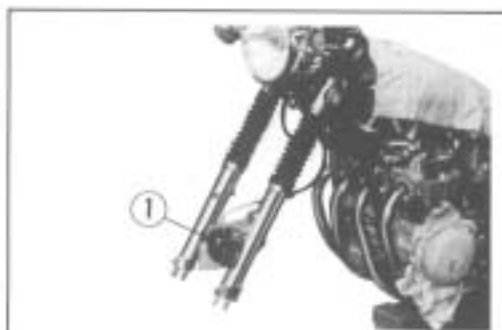
**Note:** Align handlebar punch mark with cut face of holder.  
Torque to 180~250 kg-cm.  
(13~18 lbs-ft)



- ① Master cylinder ② Master cylinder holder  
③ 6×25 bolts (chrome - 2), 6mm washers (2)

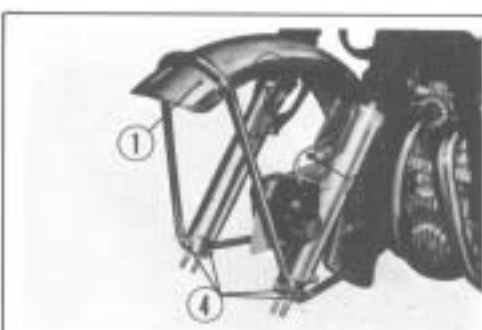
**Step 13** Set the master cylinder onto the handlebar and then attach it with the bolts from the parts carton.

**Note:** The holder should be seated with the punch mark up.



- ① Disc brake caliper

**Step 14** Turn the left front fork and check the position of the caliper as shown in the diagram.



- ① Front fender ② 6×16 bolts (2), 6mm washers (2)  
③ 6×25 bolts (2), 6mm spring washers (2)  
④ 4×20 bolts (4), 6mm washers (4)

**Step 15** Insert front fender comp. between the front forks and fasten with bolts at 8 points. Install fender center left hand side stay at same time as caliper.

**Caution:** The fender with the grommet is the rear one.



① Brake pipe ② Clip

**Step 16** Pass brake pipe through the fender grip to obtain a tight fit.

**Caution:** Do not use excessive force on the brake pipe.



① Notch ② Protrusion

**Step 17** Insert and align protrusion of gear box with notch in front wheel.

**Caution:** Do not allow any dust, etc., to get inside the wheel hub.



① Collar ② Axle shaft ③ Axle nut

**Step 18** Insert axle shaft from right hand side and tighten axle nut.

**Caution:** Axle nut fastening torque is 550-650 kg-cm. (40~47 lbs-ft)



① Disc plate

**Step 19** Lift up the front end and remove the packing from the disc brake caliper. Then set the disc plate between the brake pads and mount the front wheel assembly between the front forks.

**Caution:** Take the vinyl cover off of the disc plate.



① Parallel

**Step 20** Gear box must be mounted parallel to cut face of holders.



① 0.5 - 1.5mm ② Front axle holders  
③ 8mm washer, 8mm spring washer, 8mm nuts (4)

**Step 21** Fasten front axle holders to front forks.

**Caution:** Fasten from the front.  
Torque should be 180~250 kg-cm.  
(13~18 lbs-ft)

4



① Front fork boots

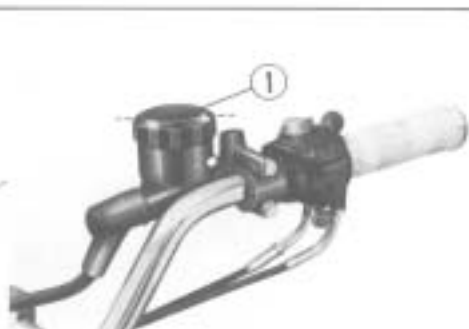
**Step 22** Fix upper part of front fork boots.

**Caution:** After fixing front wheel, check if front forks travel freely by raising and lowering handlebar.



**Step 23** Remove the bike from the packing base.





① Horizontal

**Step 24** When handlebar is pointing straight forward, set master cylinder to the handlebar horizontally and fasten with holders.

**Caution:** Check for possible surface damage and oil leaks. Fastening torque is 180~250 kg-cm.

(13~18 lbs-ft)



① L front turn light ② Turn light cord  
③ 6x28 bolt (chrome), 6mm washer, 6mm nut

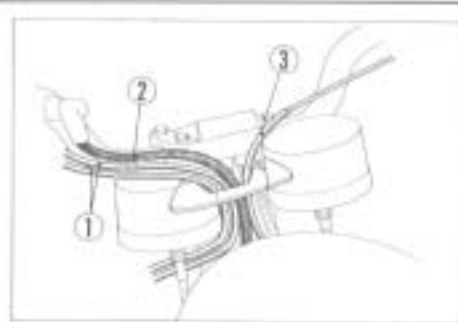
**Step 25** Remove headlight assembly from its housing and put in the handlebar wiring. Then pass the left front turn light cord through the housing and attach to light housing setting bolt.

**Caution:** Make sure wires are straight.



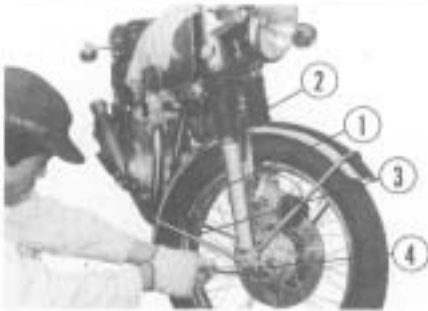
① Meter ass'y. ② 8mm nuts (2), spring washers (2)

**Step 26** Install the speedometer/tachometer assembly on the top bridge and fasten with 8 mm nuts. Then pass the electric wire harness into the headlight housing.



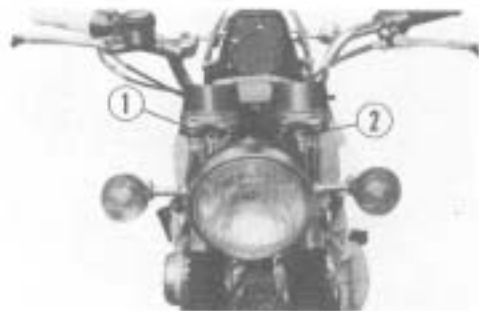
① Throttle wires ② Brake pipe ③ Clutch wire

**Step 27** Lay out the wires as shown in the figure.



① Speedometer cable ② Clamp ③ Cable set stay ④ Screw

**Step 28** Connect the speedometer cable to the gear box as shown in the figure.



① Tachometer cable ② Speedometer cable

**Step 29** Connect tachometer and speedometer cables.

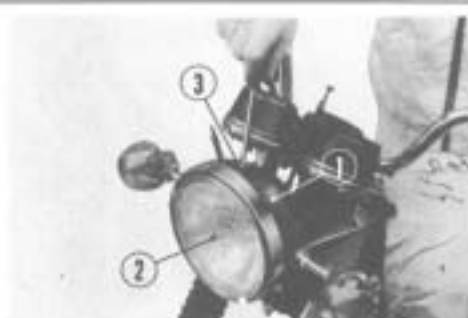


① Speedometer cable ② Clamp

**Step 30** Clamp the speedometer cable to the brake joint section.



**Step 31** Connect all cords of the same color inside headlight case.



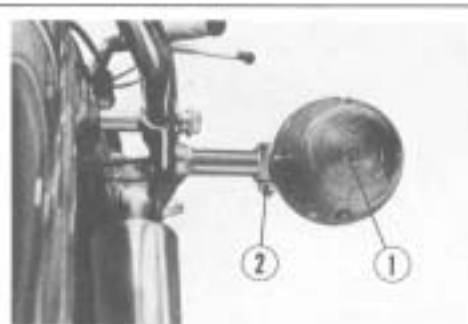
① Light housing ② Light ass'y. ③ Screw

**Step 32** Fasten light assembly to the light housing at 3 points (1 fastening plug is included in the parts case).



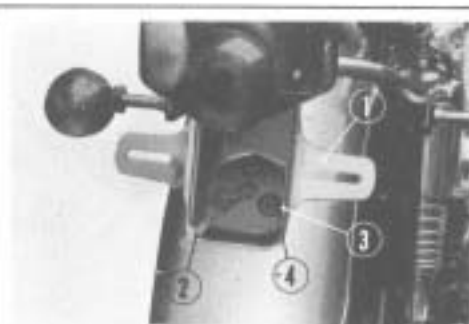
① Clutch wire ② Slot ③ Clutch lever

**Step 33** Connect clutch wire to clutch lever (adjustment procedures are described below).



① R rear turn light ② 6x28 bolt, 6mm washer, 6mm nut

**Step 34** Remove temporarily attached nuts, bolts, etc., then set right hand rear turn light on correct location and fasten.



① Taillight bracket ② Cord ③ Rubbers  
④ Collars

**Step 35** Pass electric wires through taillight bracket.

**Caution:** Make sure 3 rubbers and 3 collars are included.



- ① 6×20 bolts (chrome - 3), special washers (3)  
 ② 6mm spring washer (1), 6mm nut (1)

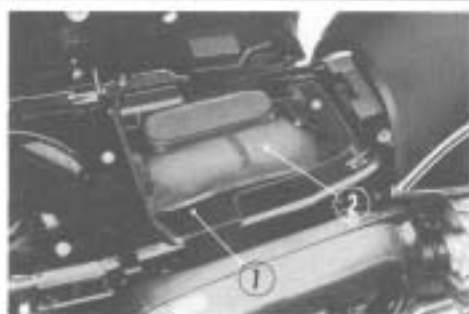
**Step 36** Fasten taillight assembly to fender at 3 points with nuts and bolts. Then connect electric wires.



- ① Seat ② Hinge bar, 6mm lock pins (2),  
 6mm washers (2)

**Step 37** Attach seat to left and right of frame tube with hinge bars and lock pins.

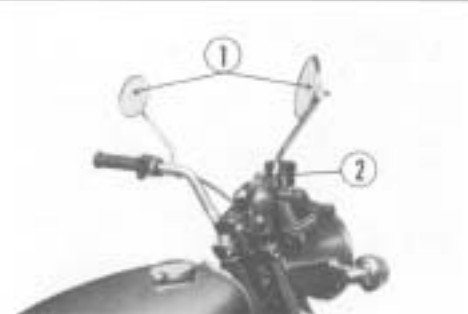
**Caution:** Hinge pins should be inserted from the inside pointing outwards.



- ① Tool tray ② Tool bag

**Step 38** Remove air cleaner element cardboard packing and attach tool box to the frame; put in tool bag.

**Caution:** Do not let the element become dirtied.



- ① Mirrors ② Lock nut

**Step 39** Attach the back mirrors.

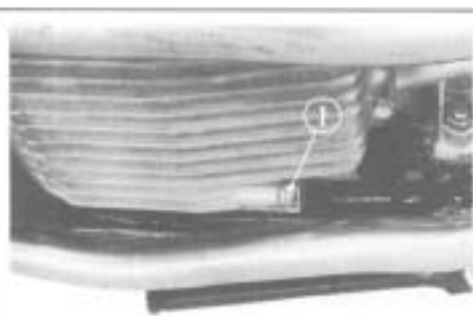
# CB500

## PRE-DELIVERY SERVICE

All HONDA products are completely inspected and serviced at the factory prior to shipment. After assembly, however, the following items should be inspected and serviced to assure that the motorcycle is in proper running condition.

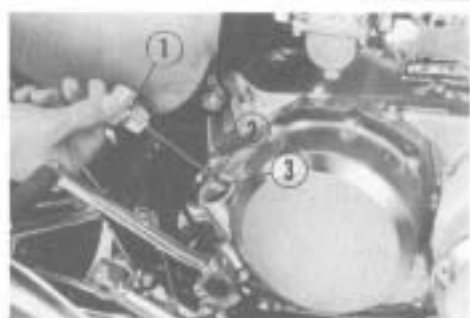
### Cautions :

1. Under no condition should the engine be started until the preservative oil has been removed from the crankcase and replaced by the recommended engine oil.
2. Do not test-run the motorcycle until the control points, especially the brakes and clutch, are adjusted properly, and the fixtures are checked for tightness.



① Crankcase drain plug

**Step 1** Drain the preservative oil from crankcase oil pan by removing the plug from the bottom of crankcase. Reinsert the plug and fill the oil tank with 3.0 ℓ (3.2 U.S. qt.) of premium quality SD SAE 10W-40 or 20W-50 oil.

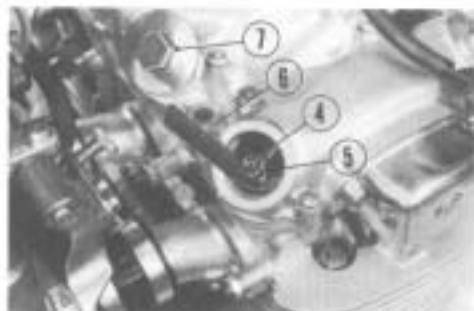


① Filler cap dipstick ② Upper level mark  
③ Lower level mark

**Step 2** After filling, make sure that the oil level is between the upper and lower gauge marks on the filler cap dipstick. Check the oil level again after five-minutes engine idling at the end of the predelivery service. This idling operation is important to obtain initial oil circulation.



① Index mark ② "T" mark ③ 1,4 Cylinder mark



④ Tappet adjusting screw ⑤ Lock nut  
⑥ Thickness gauge ⑦ hole cap

**Step 3** Adjust the tappet clearance by removing fuel tank, point cover and hole cap. Rotate the crankshaft clockwise until the "T" mark (1, 4 cylinder) on the spark advancer base plate is aligned with the index mark. Confirming that either cylinder 1 or cylinder 4 is on compression TDC, adjust the tappet clearance to 0.05 mm (0.0019 in.) on the inlet side and 0.08 mm (0.0031 in.) on the exhaust side. Then perform the tappet adjustment on the other cylinder after rotating the crankshaft one whole turn. The adjustment on 2, 3 cylinders is made in the same way. For further details, refer to Owner's Manual.



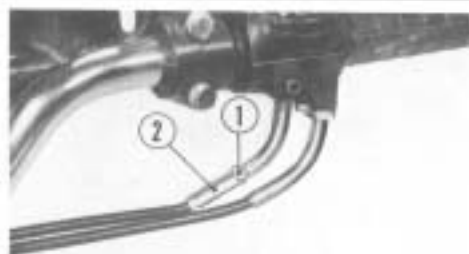
① Contact breaker points ② Contact breaker plate locking screws

**Step 4** Breaker Point Gap Adjustment. Rotate the crankshaft clockwise to the position where each breaker point gap is at maximum and check the gap with a gauge. The correct gap is 0.3~0.4mm (0.012~0.016 in.). If adjustment is necessary, loosen the breaker plate locking screw ② and move the breaker plate to achieve correct gap. After proper gap is obtained, retighten locking screw ②.



① Contact breaker base plate ② Base plate locking screws ③ Contact breaker right base plate ④ Right base plate locking screw ⑤ 1,3 cylinder breaker points

**Step 5** Ignition Timing Adjustment. Check the breaker points for proper ignition timing. The firing order is 1-2-4-3 numbering from the left cylinder. For procedure, refer to Owner's Manual. After checking, clean the breaker point surfaces with a non-oily solvent.



① Lock nut ② Grip play adjuster



③ Adjuster ④ Walking beam

**Step 6** Rotate the throttle grip and check if it turns freely. This play can be adjusted with the grip play adjuster ② and also with the adjusters ③ at the lower end of the cables at the walking beam ④ by loosening the lock nut and turning the adjuster.

For carburetor adjustment, reference should be made to Owner's Manual.



① Level line



② Bleeder hose

### Step 7 Front brake servicing

#### A) Bleeding the brake system (if necessary)

Fill the front brake reservoir with SAE J1703 brake fluid. Then replace the cap and fill the hydraulic system by working the brake lever. To do this, open the bleeder valve one half turn, squeeze the lever all the way down, close the valve and release the brake lever. Repeat this procedure until hydraulic fluid begins to flow from bleeder valve. Having filled the system with fluid, perform the actual bleeding operation in the following manner.

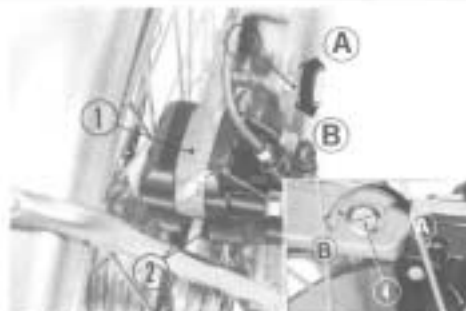
8

- 1) Attach bleeder hose to the bleeder valve.
- 2) Place the free end of the bleeder hose into a glass containing sufficient hydraulic brake fluid so that the end of the hose can be submerged. Fill the reservoir with the recommended brake fluid. Screw the cap partially on the reservoir to prevent entry of dust.
- 3) Rapidly pump the brake lever several times until pressure can be felt, then holding the lever tight, open the bleeder valve by about one-half turn and squeeze the lever all the way down. Do not release the lever until the bleeder valve has been closed again. Repeat this procedure until bubbles cease to appear in the fluid at the end of the hose.
- 4) Remove the bleeder hose, tighten the bleeder valve and attach the bleeder valve dust cap.
- 5) Do not allow the fluid reservoir to become empty during the bleeding operation as this will allow air to enter the system again. Replenish the fluid as often as necessary while bleeding.
- 6) Check for proper effect of bleeding and absence of leaks in the front brake lines while maintaining pressure on the brake lever. Replenish fluid in the reservoir when bleeding is completed. Reinstall the diaphragm, washer and reservoir cap and tighten.



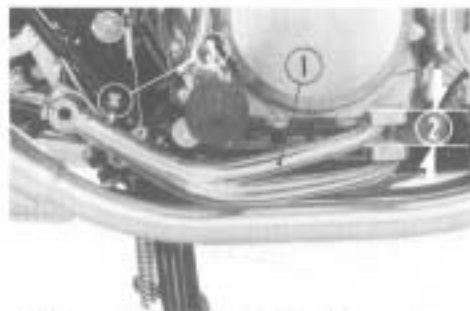
### B) Brake caliper adjustment

Check if there is a small clearance between the fixed friction pads ② and the brake disc. To adjust,



① Brake caliper ② Brake pads ③ Stopper bolt lock nut ④ Stopper bolt

- 1) Raise the front wheel off the ground using a suitable prop.
- 2) Loosen the caliper stopper bolt lock nut ③.
- 3) Screw the stopper bolt ④ in direction ⑤ until the friction pad contacts the brake disc. When the wheel is rotated, some drag should be noticed. While rotating the front wheel, turn the stopper bolt in direction ⑥ until the front wheel rotates freely.
- 4) Turn the stopper bolt in direction ⑥  $\frac{1}{2}$  turn further and tighten the lock nut.



① Rear brake pedal ② Pedal tip travel  
③ Pedal stopper bolt



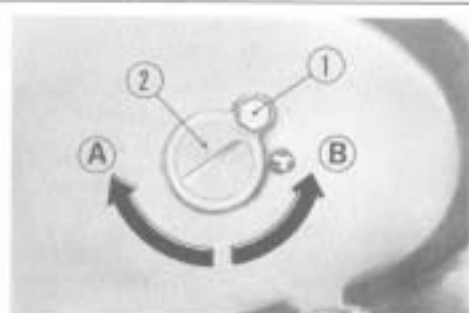
④ Rear brake adjusting nut  
⑤ Brake arm pin

**Step 8** Rear Brake Adjustment. Raise the rear wheel off the ground by placing the motorcycle on the main stand. Rotate the wheel by hand and depress the brake pedal ①. Note the pedal tip travel ② before the brake takes hold. Turn the adjusting nut ④ to give about 25 mm (1 in.) free play at the pedal tip. After adjustment, make sure that the cut-out on the adjusting nut is seated on the brake arm pin ⑤.



### Step 9 Drive Chain Adjustment

The drive chain tension at the midpoint between the sprockets is 10~20 mm (0.4~0.8 in.). Adjust the tension if necessary, referring to Owner's Manual.

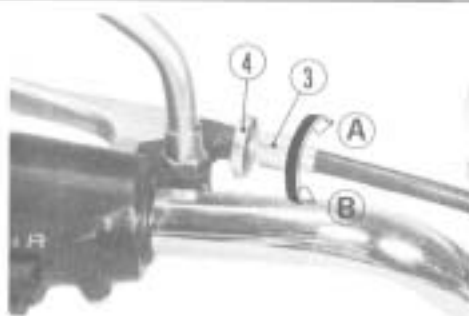


① Clutch adjuster locking bolt ② Clutch adjuster

### Step 10 Clutch adjustment

The normal clutch lever free play should be 0.4~1.0 in. (10~25 mm) at lever end.

To adjust, loosen the clutch adjuster locking bolt ① and turn the adjuster ② clockwise Ⓐ to reduce the clutch play.



③ Clutch cable adjuster bolt ④ Lock nut



③ Clutch cable adjuster bolt ④ Lock nut

Minor adjustment can be made with the adjusters at the upper and lower ends of the clutch cable. Loosen the lock nut ④ (⑥ at the lower end) at the clutch lever and turn the cable adjuster bolt ③ (⑤ at the lower end). Turning the cable adjuster bolt clockwise Ⓐ will increase the play in the clutch lever, turning in direction Ⓑ will decrease the play. Do not forget to tighten the lock nut after completing the adjustment.

After the adjustment has been made, check that the clutch does not slip and disengages properly.



**Step 11 Battery**

- 1) After carefully reading the instructions enclosed in the battery carton, prepare the battery to mount on the motorcycle.
- 2) To ensure that the battery is fully charged, boost charge just before sales delivery.
- 3) For details, refer to Owner's Manual.

**Step 12 Other Important Inspection Items**

- 1) Tire pressure  
Recommended tire pressure  
Front 1.8 kg/cm<sup>2</sup> (26.0 psi)  
Rear 2.0 kg/cm<sup>2</sup> (28.5 psi)
- 2) Electrical system  
Check the entire electrical system to ascertain that all switches and lighting equipment function properly.