
HONDA CB250RS

Set-up Instructions

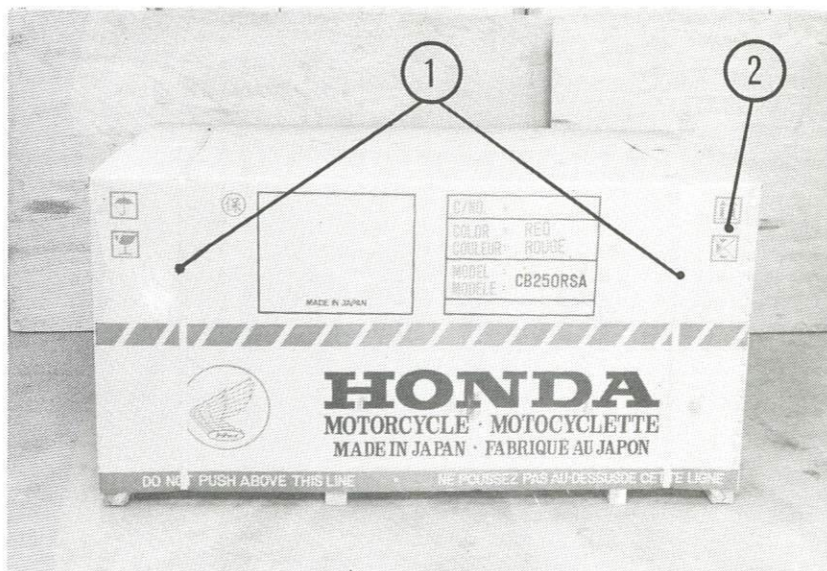
WARNING**WARNING****WARNING****WARNING**

SET-UP AND PRE-DELIVERY SERVICE MUST BE PERFORMED BY AN AUTHORIZED HONDA MOTORCYCLE DEALER. Proper set-up and pre-delivery service is essential to rider safety and reliability of the motorcycle. When a customer takes delivery of his brand new motorcycle, he expects it to be in excellent running condition. There are few things that will cause greater customer dissatisfaction than poor preparation of a new motorcycle. An error or oversight made by the mechanic assembling and servicing a new unit can easily result in faulty operation, damage to the machine, or even injury to the rider.

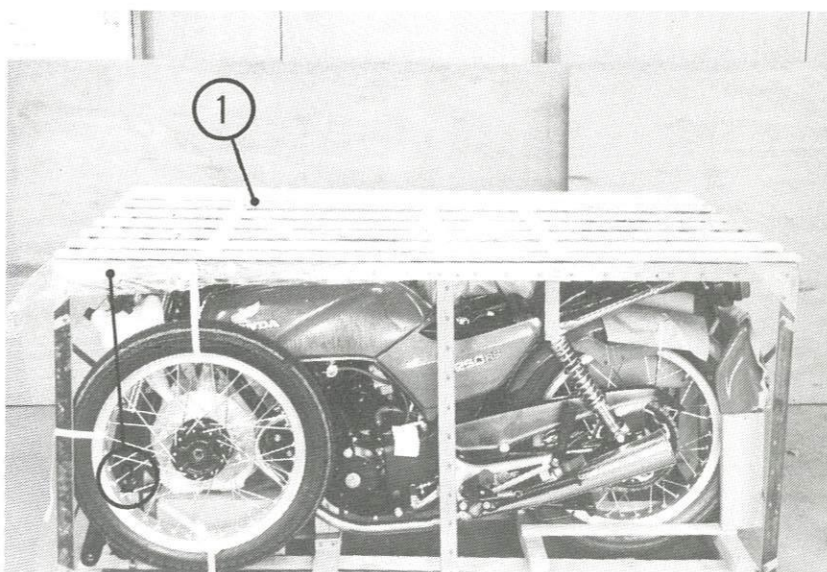
NOTE:

- Right and left are determined from the rider's view.
- Instructions contained are based on CB250RS UK type.
- Instructions given are for one motorcycle.

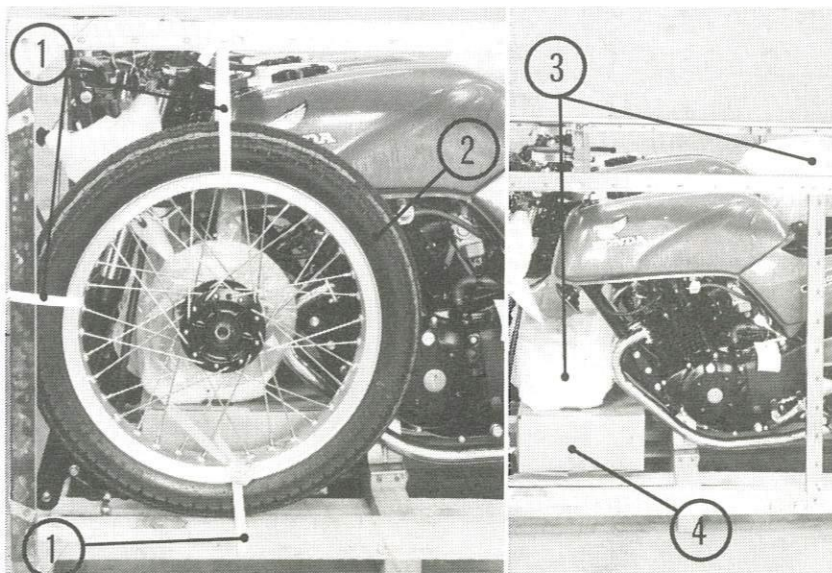
STEP 1 – Cut straps (1) and lift of carton cover (2).



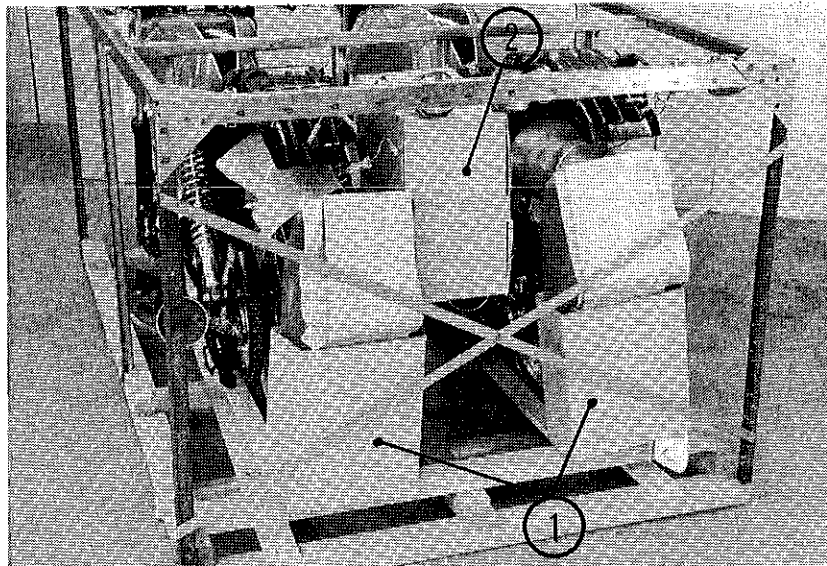
STEP 2 – Remove crate wood top (1) and plastic sheet (2).



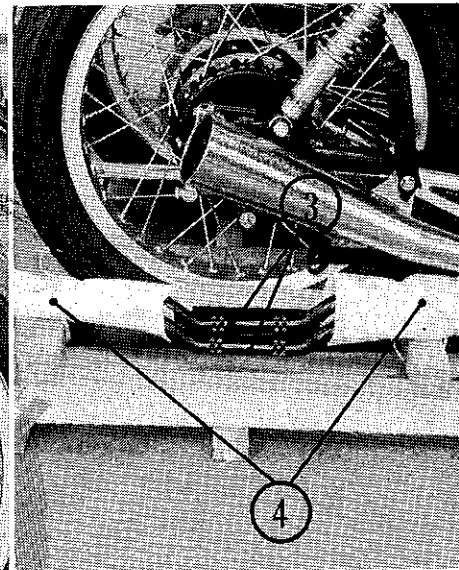
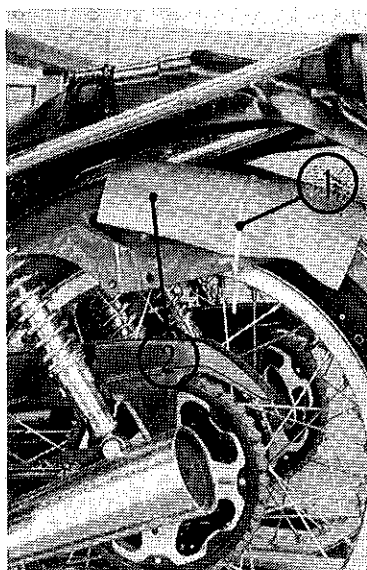
STEP 3 – Cut straps (1) holding front wheel (2) to crate top, end and base and remove front wheel. Remove seats (3) and parts carton (4) from motorcycle.



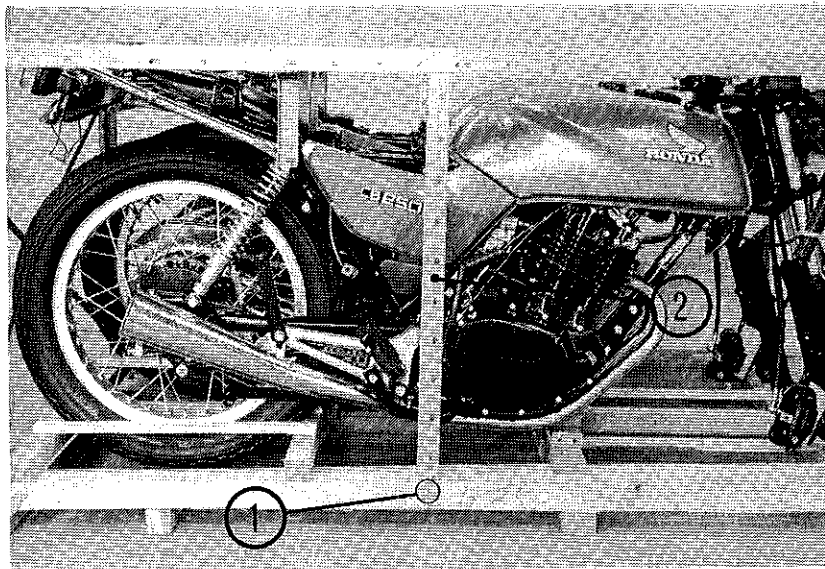
STEP 4 – Remove seat cowls (1) and parts carton (2) from crate base.



STEP 5 – Cut strap (1) holding front fender (2) to rear wheel and remove front fender. Remove handlebar (3) by removing ties (4).

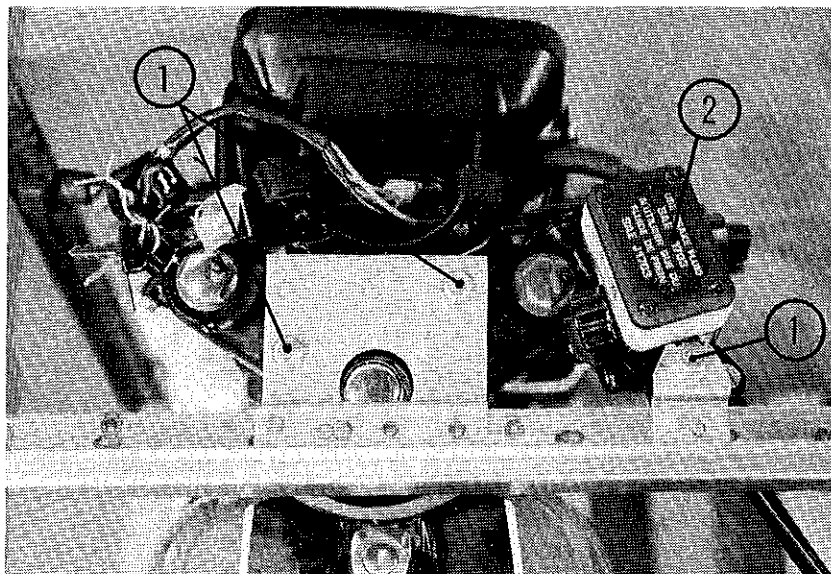


STEP 6 – Remove two bolts (1) holding right and left centre beams (2) to crate base. Discard bolts and beams.

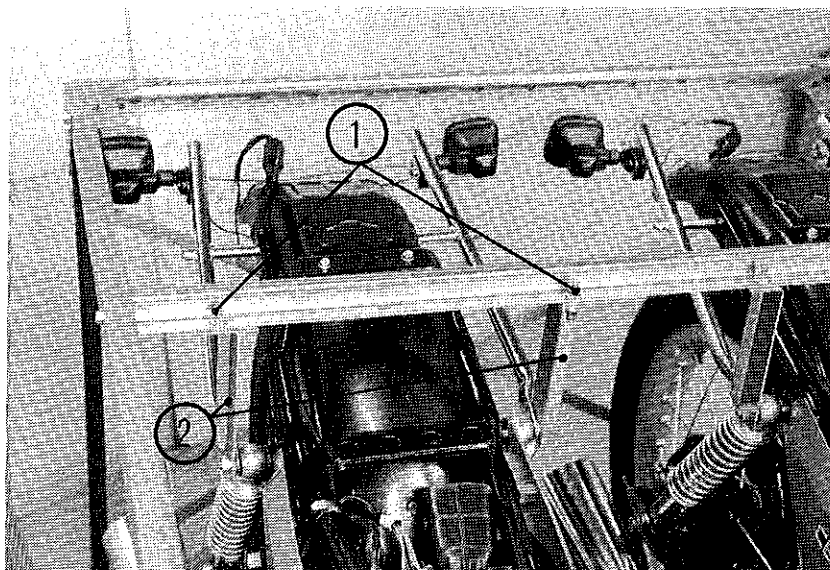


STEP 7 – Remove six bolts (1) attaching front shipping brace to handlebar lower holders and front brake master cylinder (2).

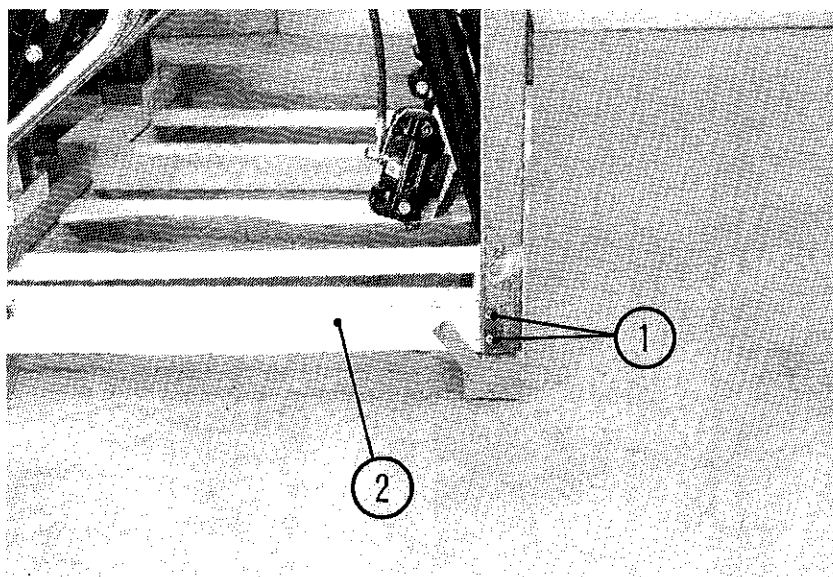
CAUTION: Do not operate the front brake lever until the front wheel is installed.

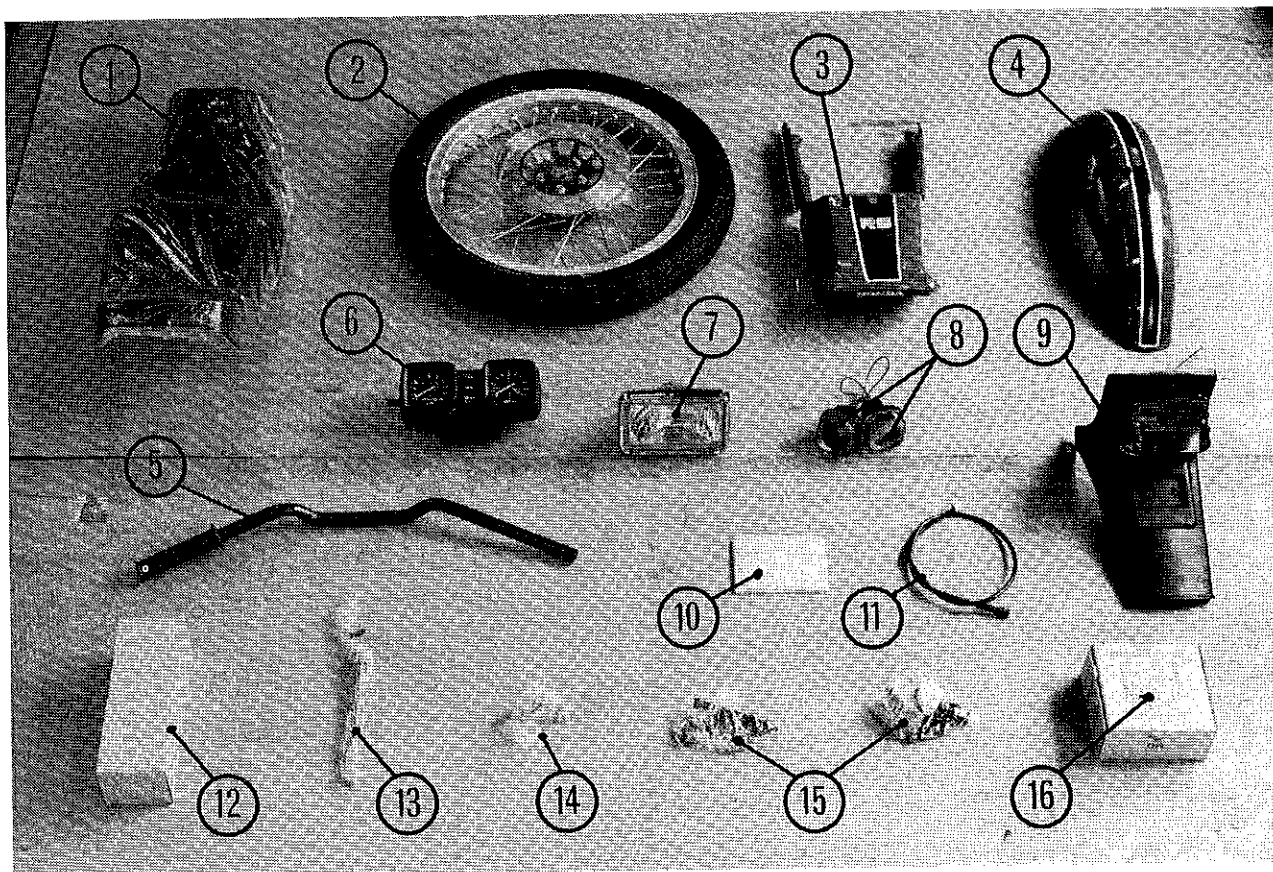


STEP 8 – Remove four nuts (1) attaching rear shipping brace to shipping brace brackets (2). Discard nuts.



STEP 9 – Remove eight screws (1) attaching crate end frames to crate base (2). Carefully lift off steel crate by lifting it up.

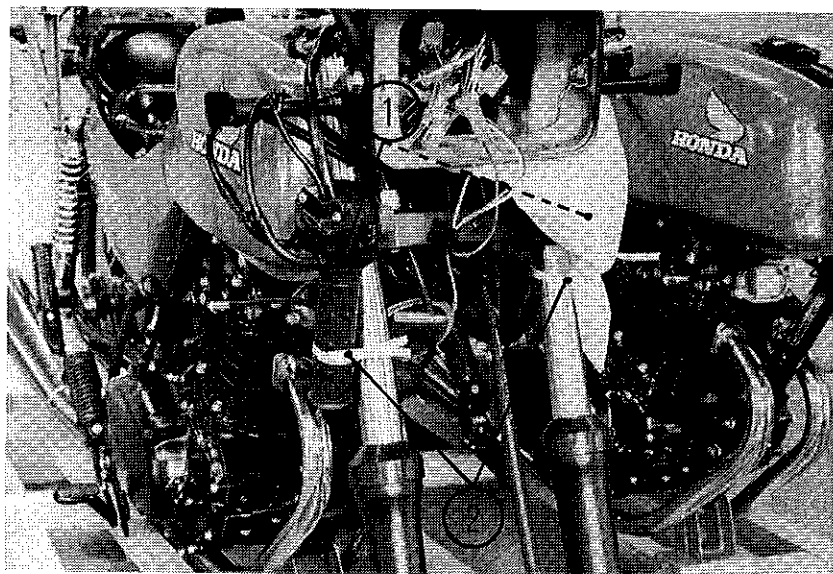




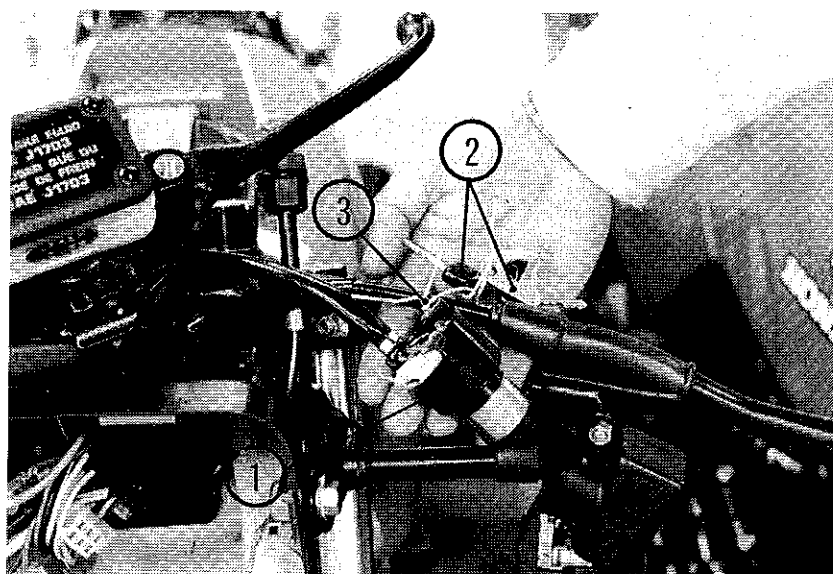
STEP 10 – Unpack remaining loose parts and check against this illustration.

- (1) Seat
- (2) Front wheel
- (3) Seat cowl
- (4) Front fender
- (5) Handlebar
- (6) Speedometer assembly
- (7) Headlight
- (8) Front turn signal
- (9) Taillight assembly
- (10) Owner's manual
- (11) Speedometer cable
- (12) Rear view mirror
- (13) Front axle, collar, washer and axle nut
- (14) Speedometer gear box
- (15) Attaching hardware
- (16) Battery

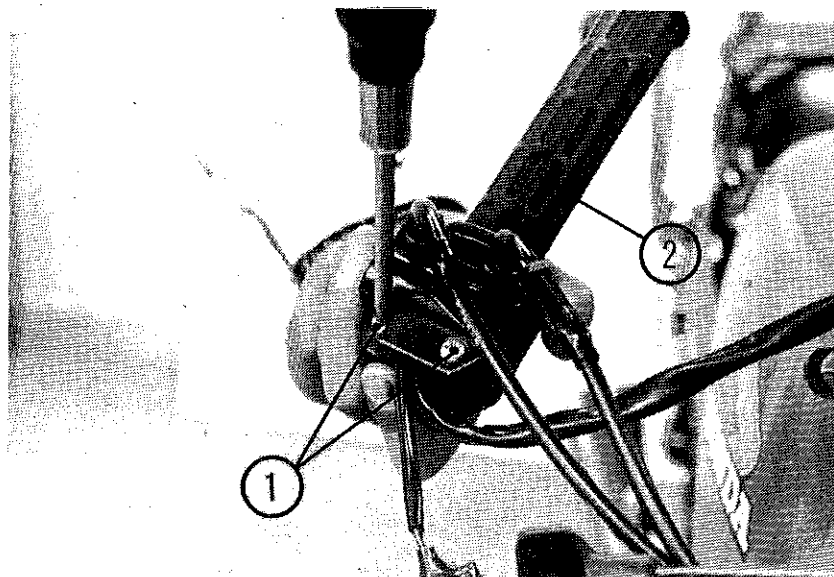
STEP 11 – Remove right and left handlebar switch assemblies (1) from front fork legs by removing ties (2). Remove protective coverings.



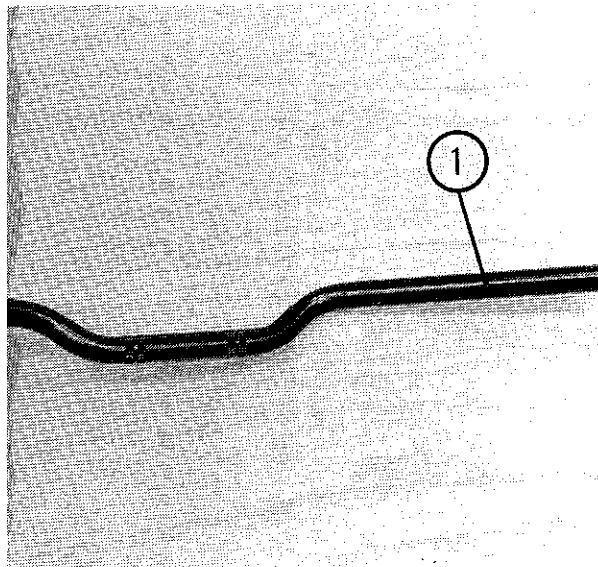
STEP 12 – Remove ignition switch (1) and keys (2) from clutch cable by removing tie (3).



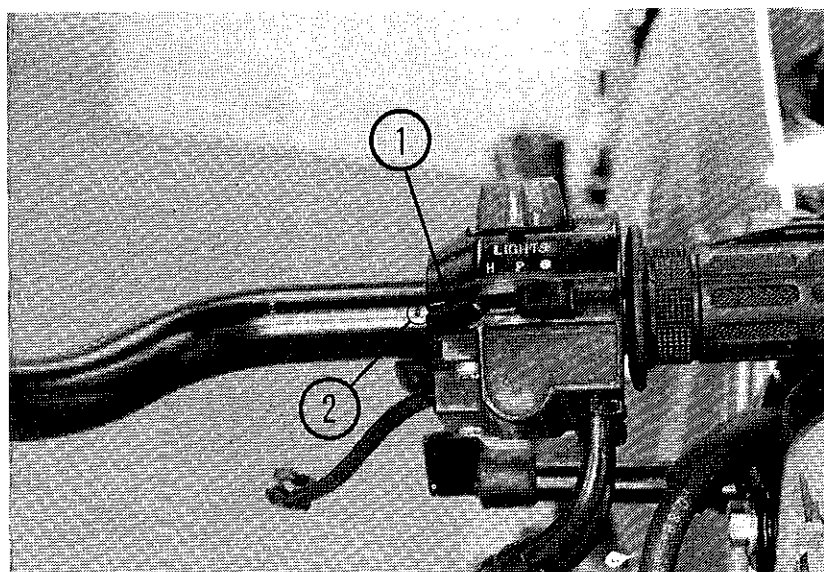
STEP 13 – Loosen 5 mm screws (1) attaching throttle grip assembly (2) together.



STEP 14 – Clean throttle grip area (1) of handlebar and coat with clean grease.



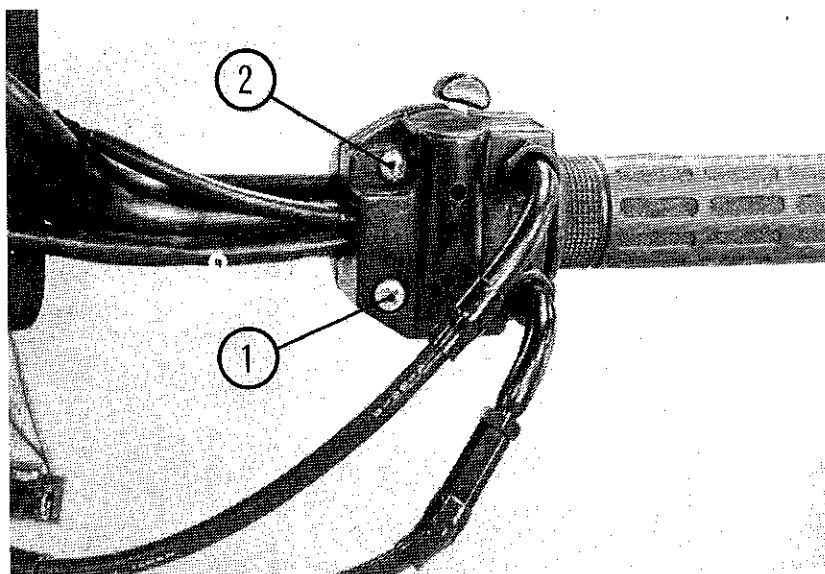
STEP 15 – Slip throttle grip assembly on to handlebar and align split (1) in switch housing with punch mark (2) on handlebar. Do not twist throttle cables.



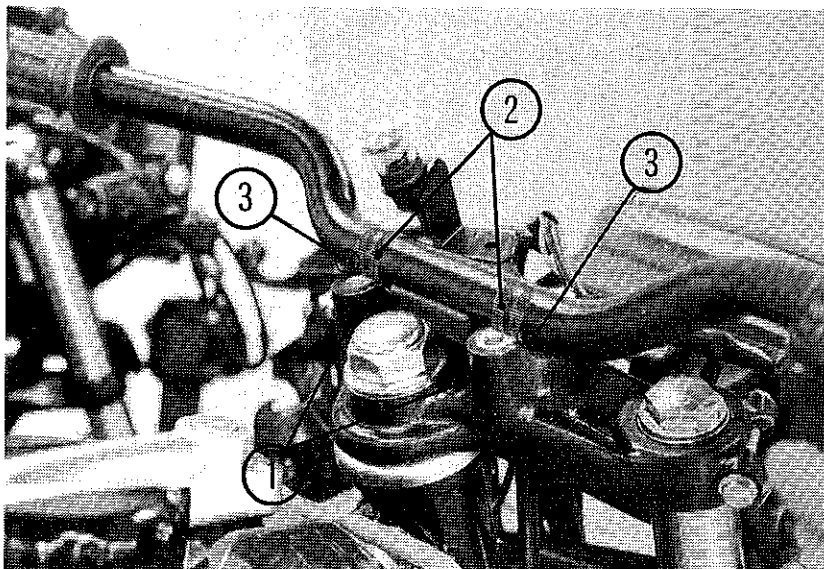
STEP 16 – Tighten forward 5 mm screw (1) to specified torque first, then tighten rear 5 mm screw (2) to same torque.

Torque specification:

4.5–6 N·m (0.45–0.6 kg-m, 3–4 ft-lb)

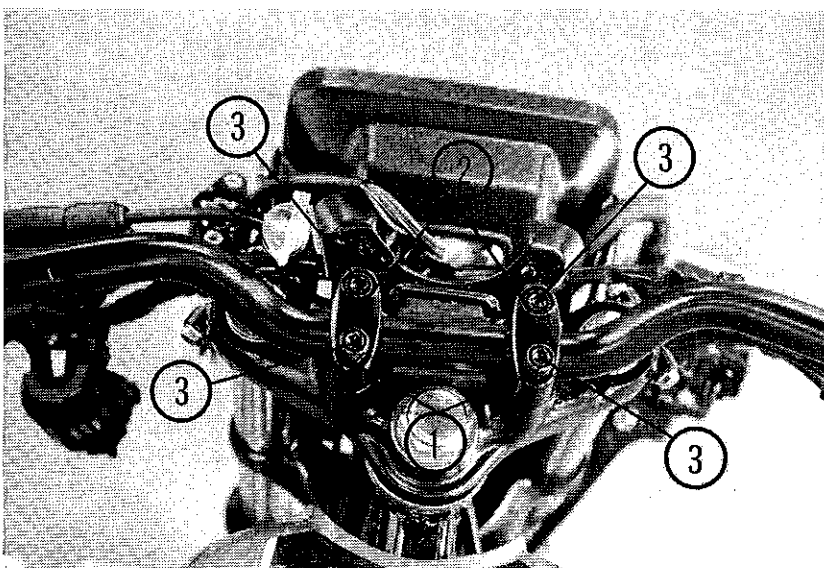


STEP 17 – Position handlebar on lower holders (1) with serrations (2) aligned with holders and punch marks (3) on handlebar in line with top of holders.

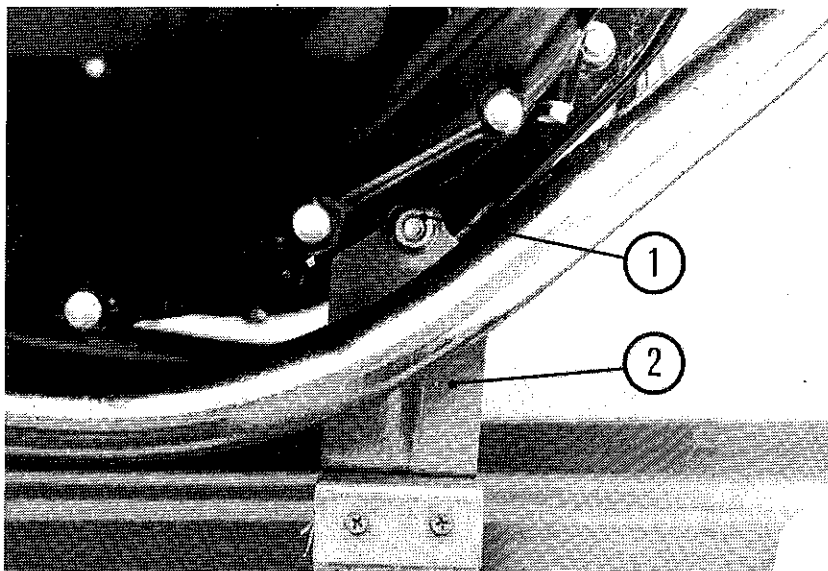


STEP 18 – Position upper handlebar holders (1) on handlebar with punch marks (2) forward. Attach each holder loosely using four 8 x 32 mm socket bolts (3). Tighten forward bolts to specified torque first, then tighten rear bolts to same torque.

Torque specification:
18–30 N·m (1.8–3.0 kg·m, 13–22 ft·lb)



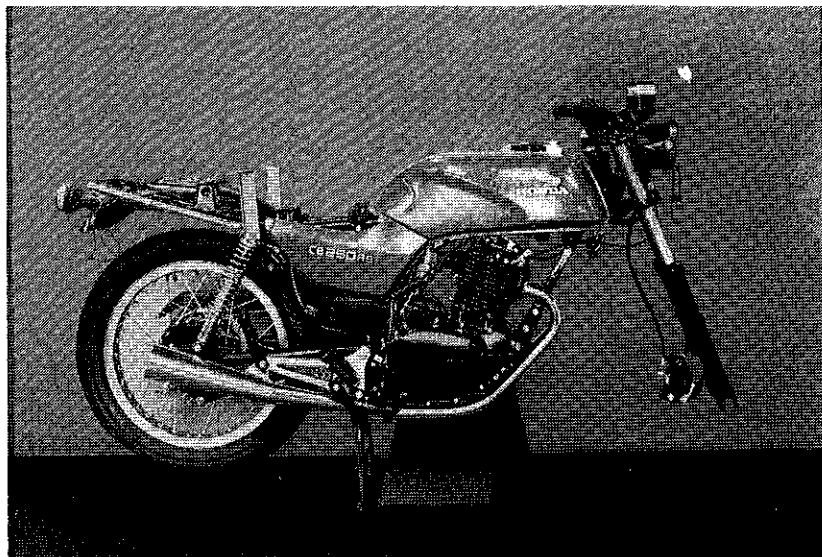
STEP 19 – Loosen engine mount bolt and nut (1) to remove motorcycle from shipping bracket (2).



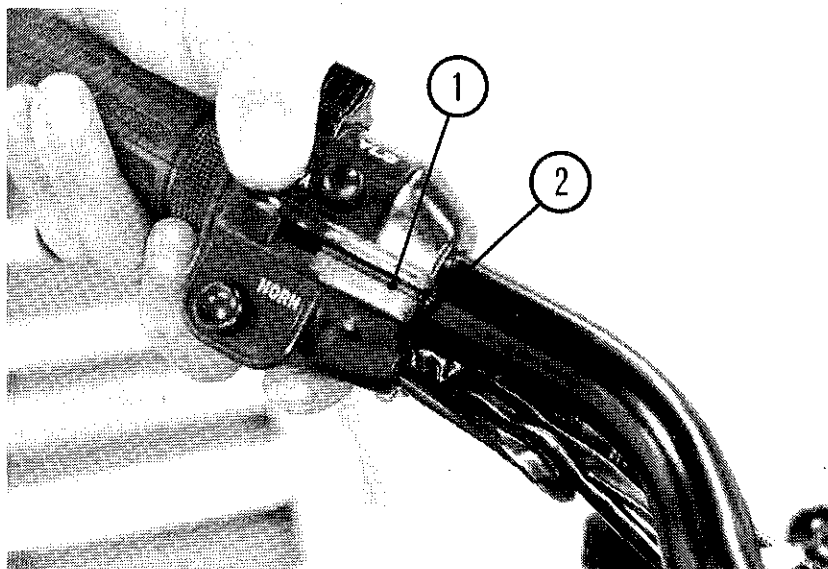
STEP 20 – Remove motorcycle from crate base and support with main stand (1) and a padded block (2) centred under engine.

WARNING:

- *Because of the weight of the motorcycle, this operation will require assistance.*
- *Until motorcycle is resting on front wheel and side stand, it can easily be tipped over.*



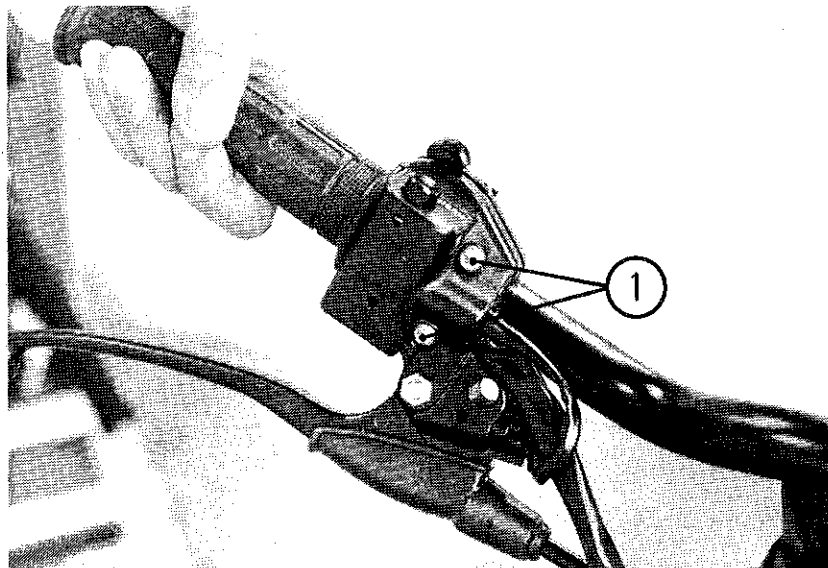
STEP 21 – Position left handlebar switch assembly on handlebar and align split (1) in switch housing with punch mark (2) on handlebar.



STEP 22 – Install left switch assembly using two 5 x 25 mm screws (1). Tighten forward screw to specified torque first, then tighten rear screw to same torque.

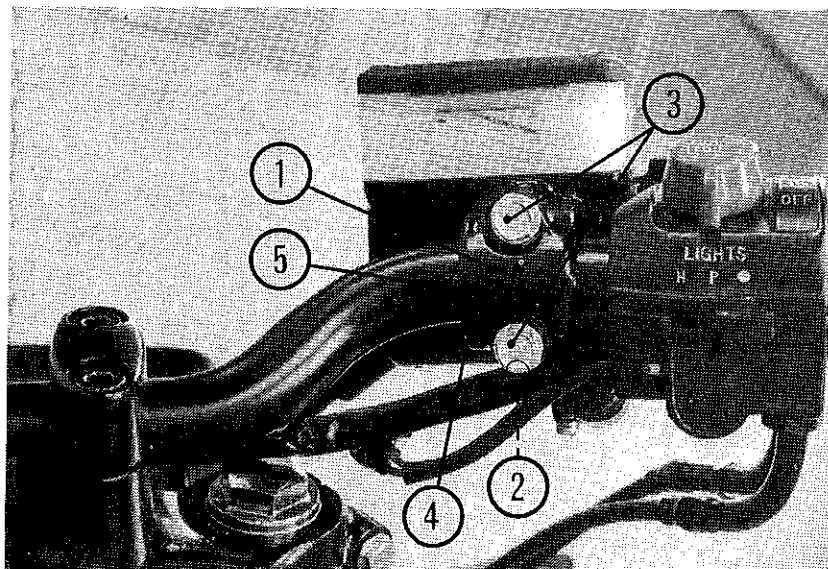
Torque specification:

4.5–6 N·m (0.45–0.6 kg·m, 3–4 ft-lb)

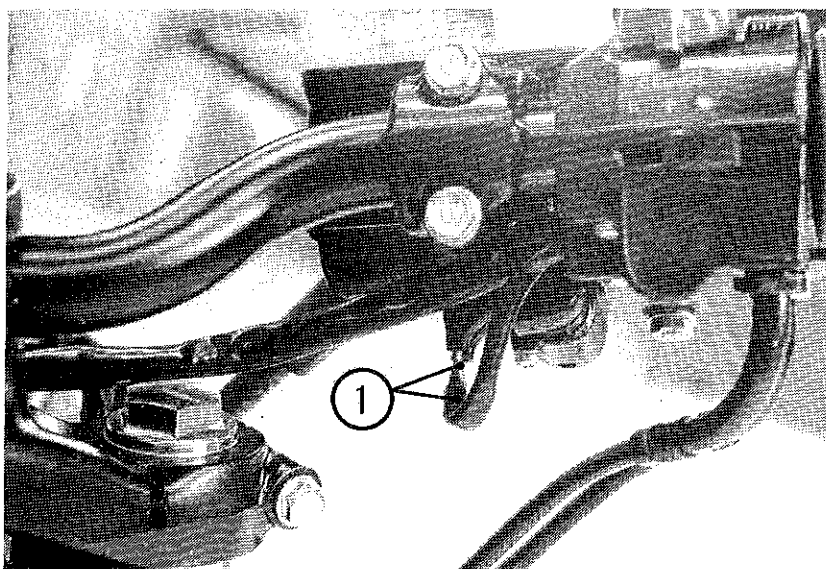


STEP 23 – Install master cylinder and holder (1) with punch mark (2) on holder down, using two 6 x 25 mm flange bolts (3). Position master cylinder so lug (4) of holder is aligned with punch mark (5) on handlebar. Tighten upper bolt to specified torque first, then tighten lower bolt to same torque.

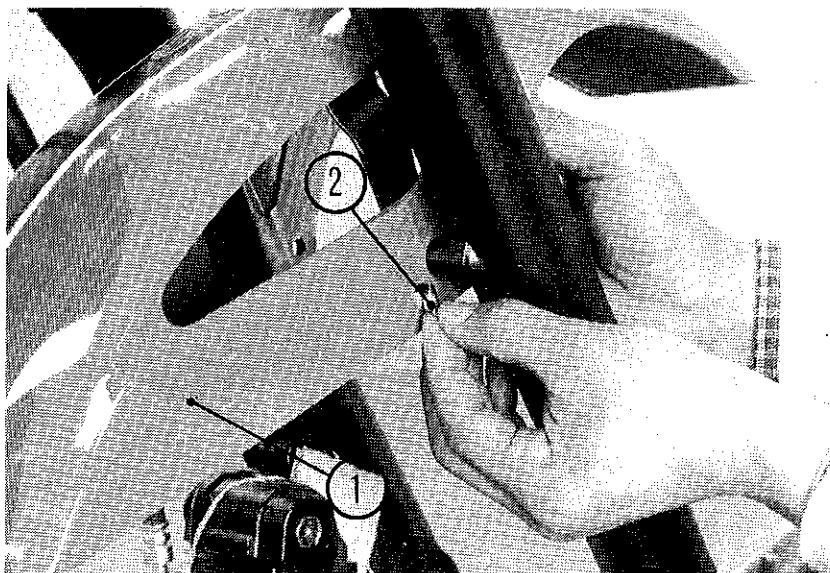
Torque specification:
8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)



STEP 24 – Connect front brake stoplight switch wires (1) to switch terminals.



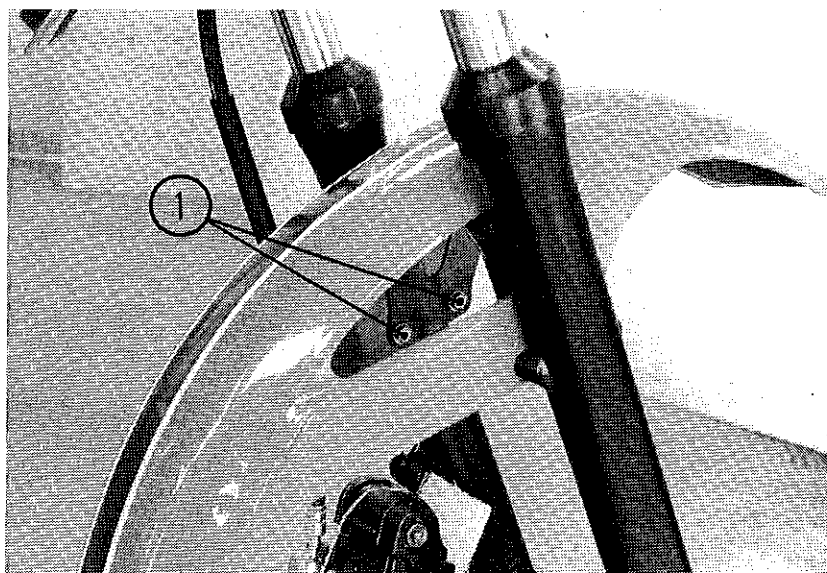
STEP 25 – Position front fender (1) with brake hose clip on left, between fork legs. Insert four collars (2) into holes in front fender as shown.



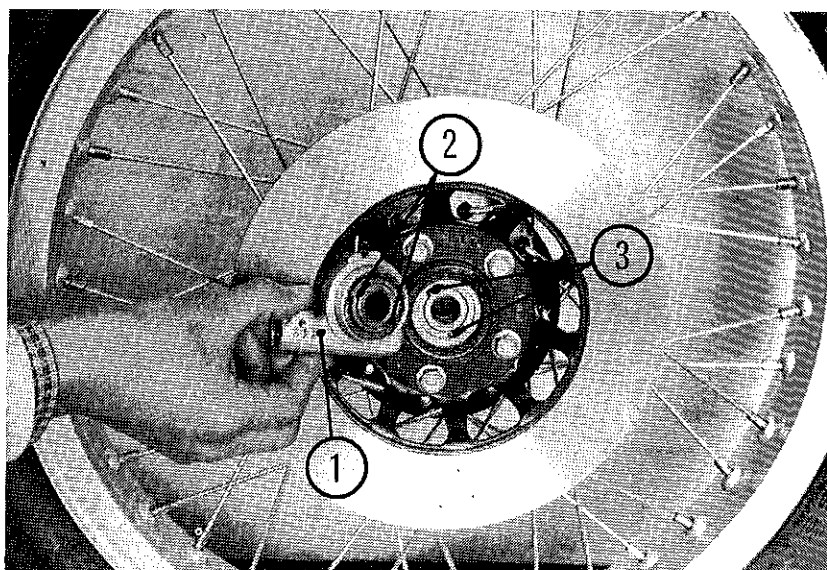
STEP 26 – Install front fender using four 6 x 16 mm flange bolts (1). Tighten bolts to specified torque.

Torque specification:

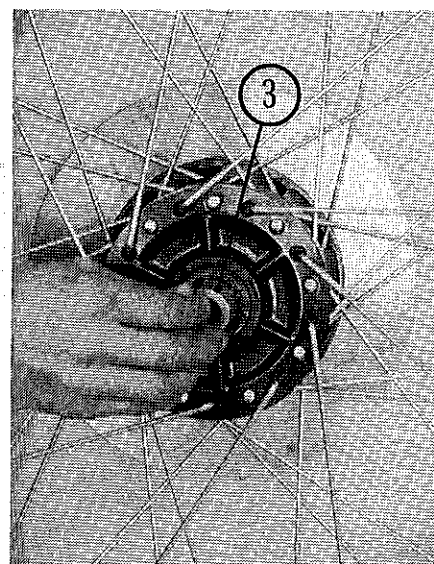
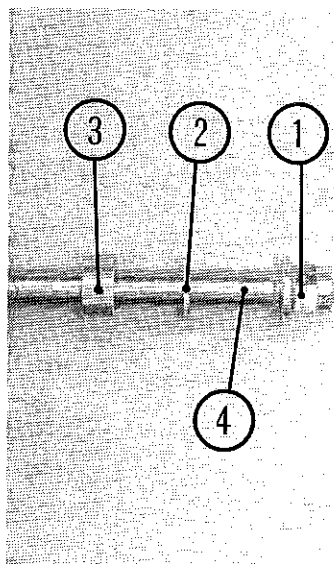
8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)



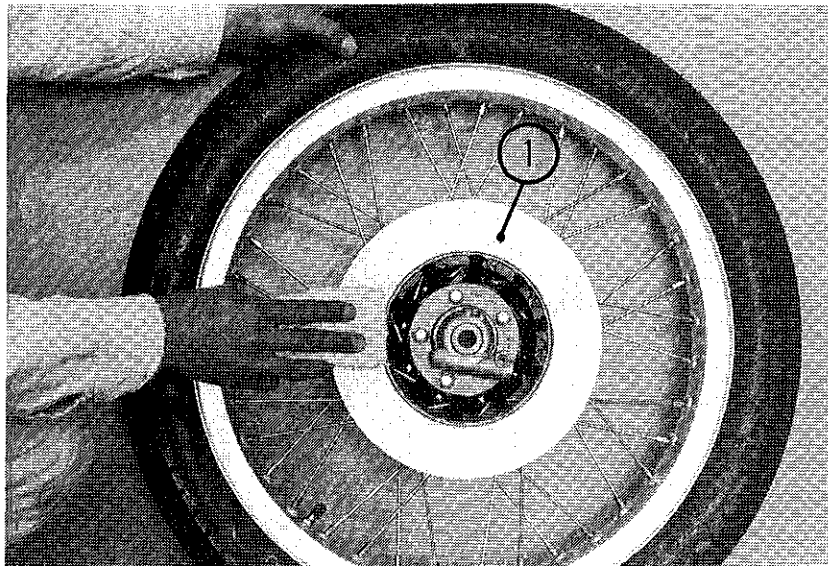
STEP 27 – Install speedometer gear box (1), making sure slots (2) are aligned with tabs (3) in retainer.



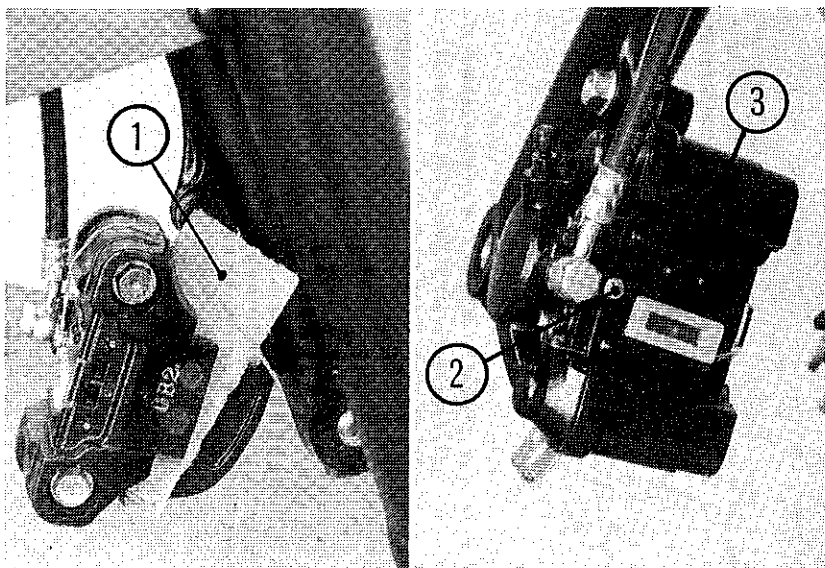
STEP 28 – Remove axle nut (1), 15.2 mm plain washer (2) and axle collar (3) from front axle (4). Install axle collar (3) in grease seal of front wheel hub.



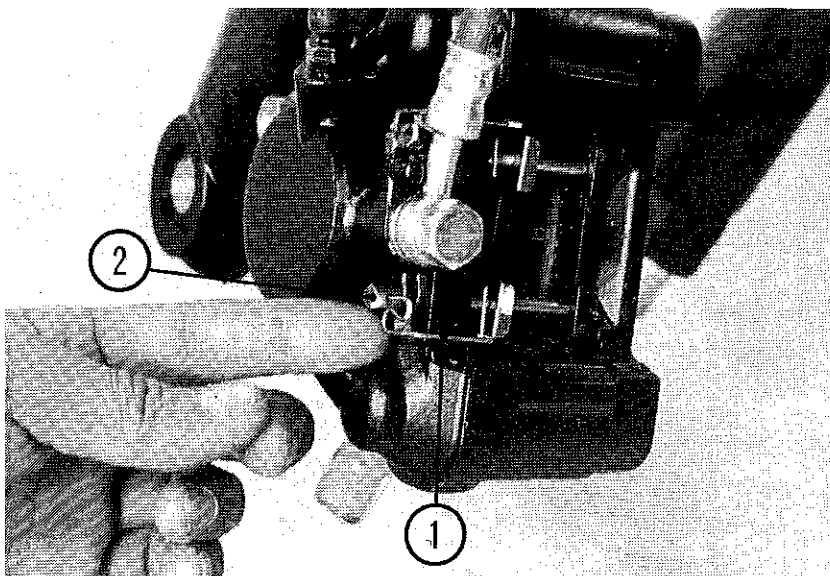
STEP 29 – Thoroughly clean both sides of front brake disc (1) using a good quality degreasing agent. Wipe with a clean cloth.



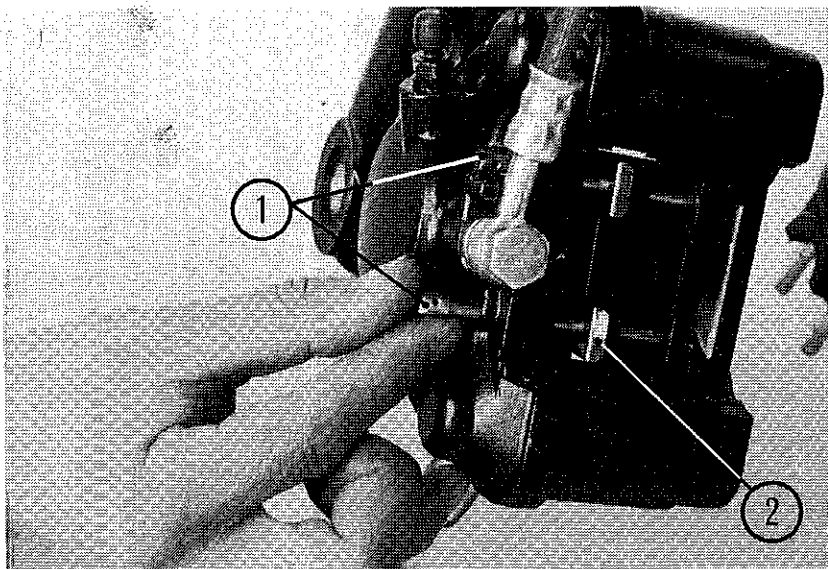
STEP 30 – Remove separator (1) from between brake pads and remove screw (2) holding brake pad cover (3). Remove brake pad cover.



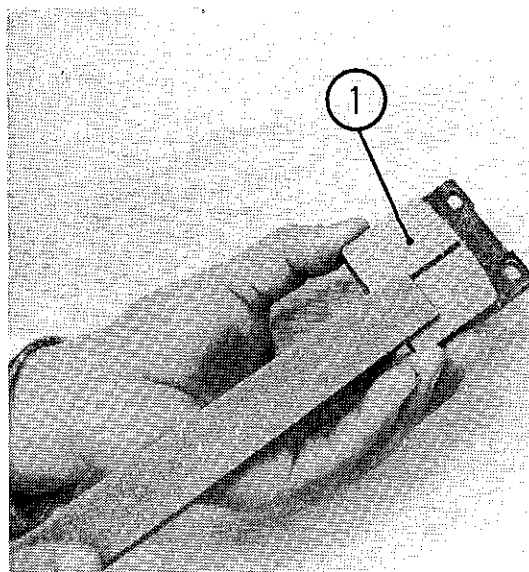
STEP 31 – Pull out pad pin retaining clip (1) from brake pad pins (2).



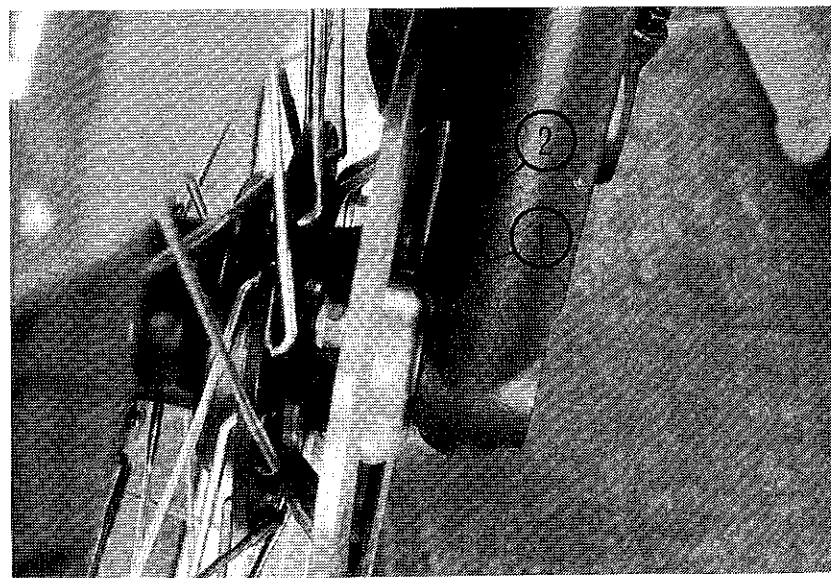
STEP 32 – Pull out brake pad pins (1) and remove both brake pads. Note that brake pad next to piston has a shim (2).



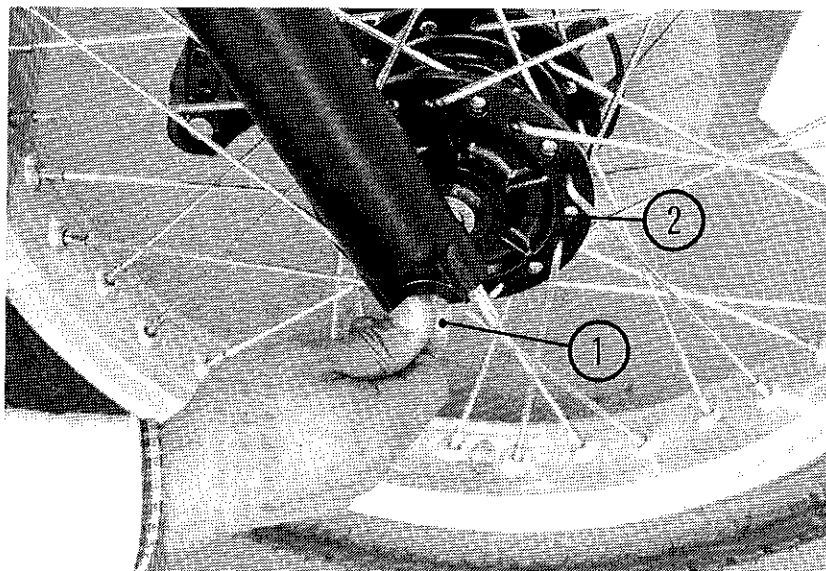
STEP 33 – Scrape off all preservative and residue from each brake pad (1).



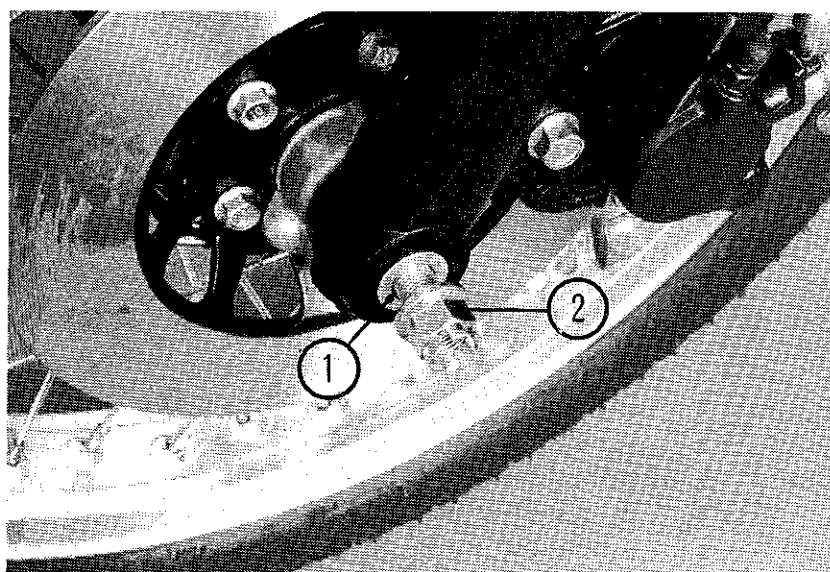
STEP 34 – Install front wheel between fork legs, with tongue (1) of left fork leg aligned with groove in speedometer gearbox (2).



STEP 35 – Insert front axle (1) from right side, through axle collar (2), wheel hub, speedometer gearbox and left fork leg.

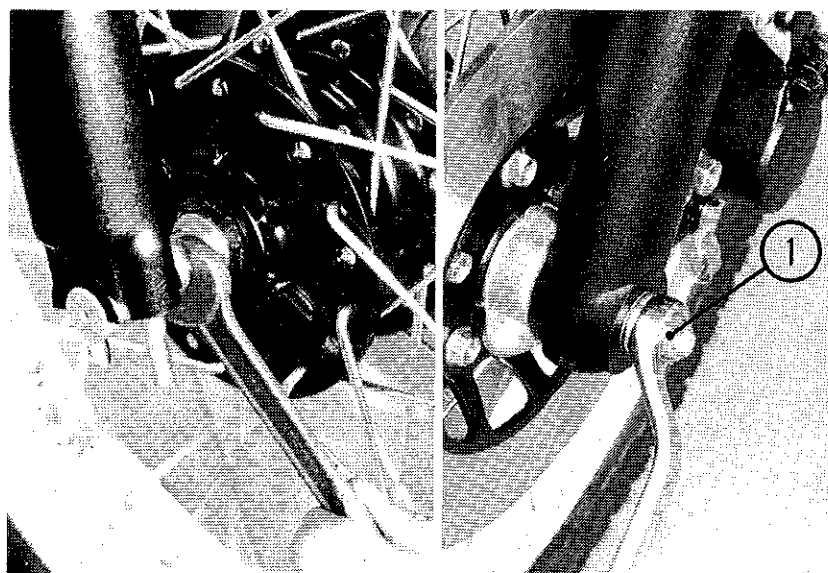


STEP 36 – Install a 15.2 mm plain washer (1) and axle nut (2) on front axle.

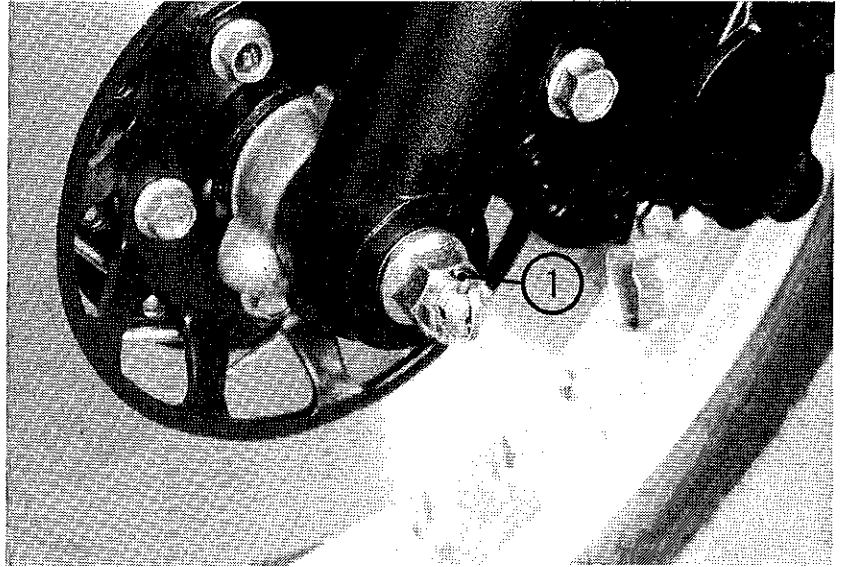


STEP 37 – Tighten axle nut (1) to specified torque. Remove block from under engine.

Torque specification:
50–80 N·m (5.0–8.0 kg-m, 36–58 ft-lb)

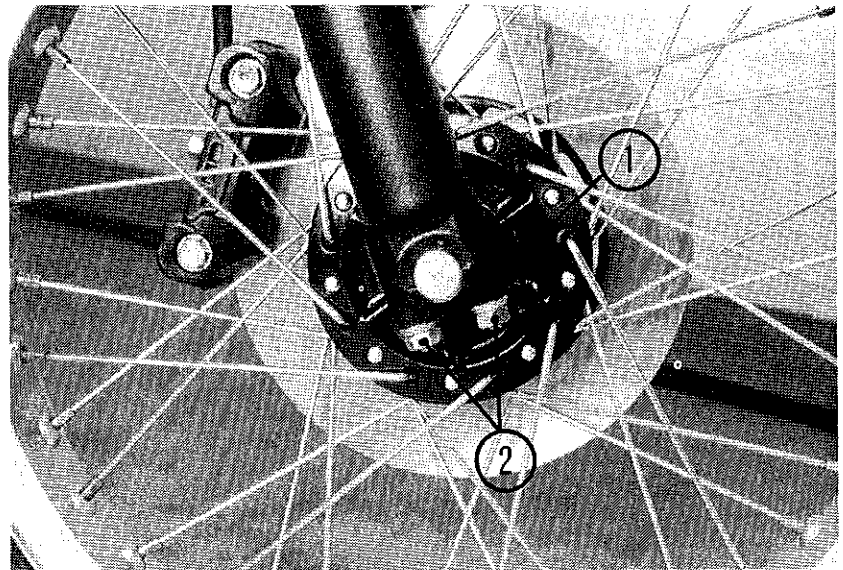


STEP 38 – Insert cotter pin (1) through axle nut and spread ends as shown. Install axle cap on axle nut (German type only).



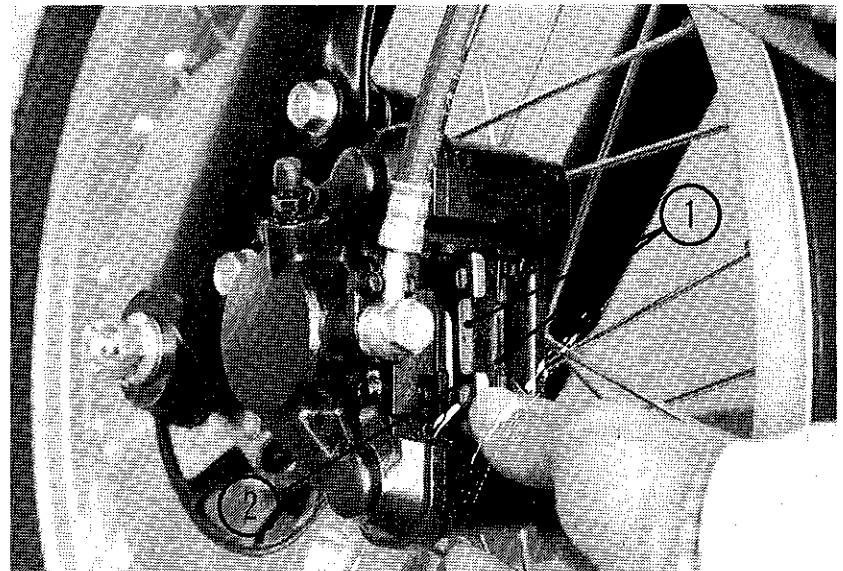
STEP 39 – Install axle holder (1) on right fork leg with high mating surface forward ("F" mark pointing forward), using an 8 mm nut, lock washer, and plain washer (2) on each stud. Tighten finger-tight. To prevent misalignment, tighten forward axle nut to specified torque first, then tighten rear nut to same torque.

Torque specification:
18–25 N·m (1.8–2.5 kg·m, 13–18 ft·lb)

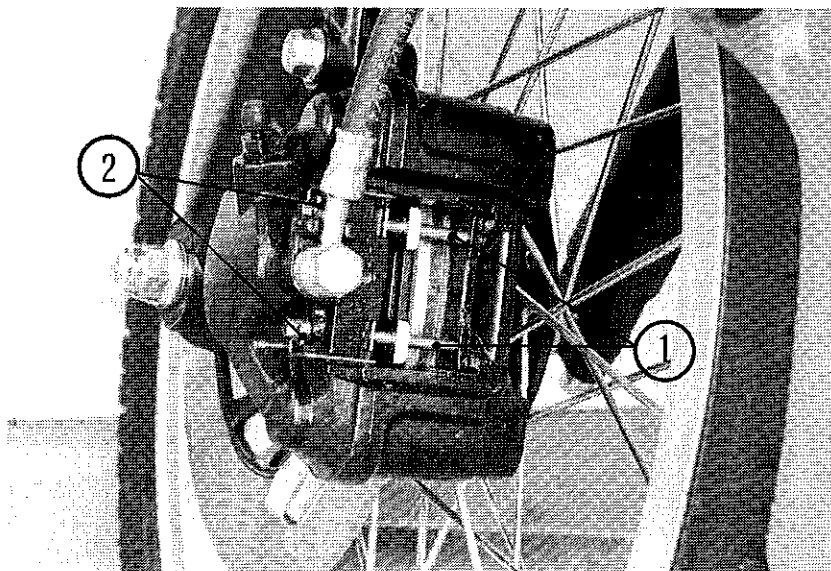


STEP 40 – Reinstall brake pads (1) with shim (2) between outside brake pad and piston.

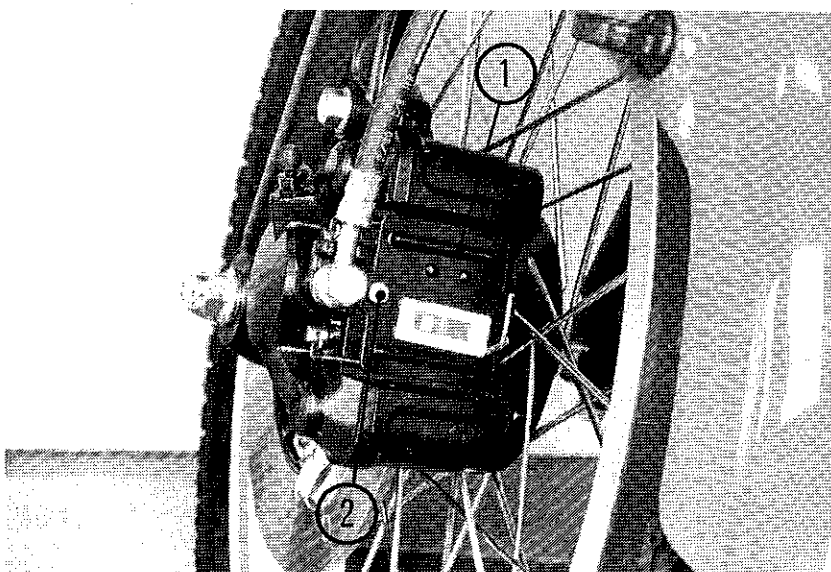
NOTE: Be sure holes of shim and brake pad are aligned.



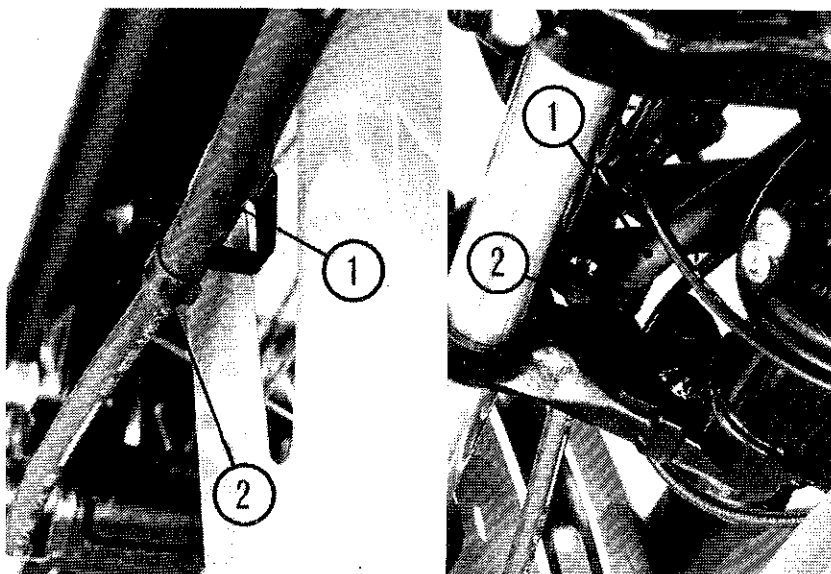
STEP 41 – Reinstall brake pad pins (1) with holes in pins facing up. Reinstall brake pad pin retaining clip (2) down through holes in brake pad pins. Be sure clip is pressed down firmly.



STEP 42 – Reinstall brake pad cover (1) and tighten screw (2) securely.



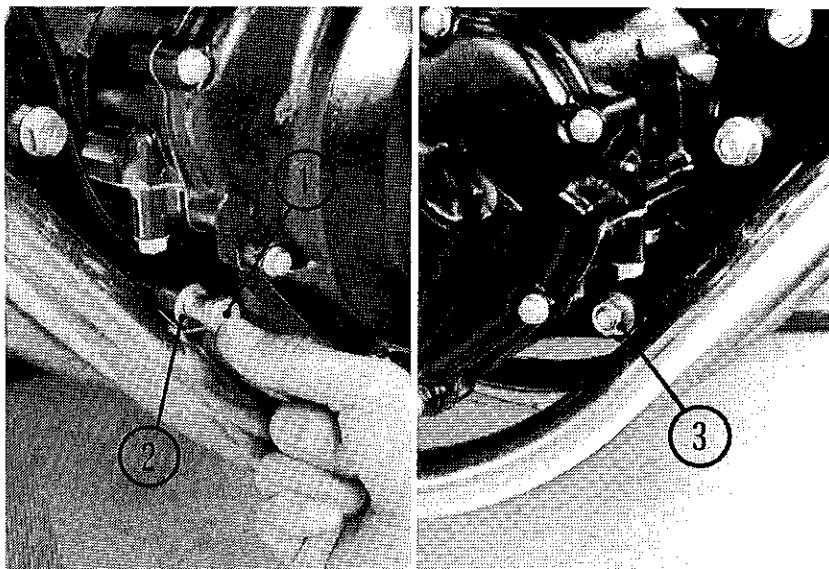
STEP 43 – Insert brake hose (1) into brake hose clips (2) and squeeze clips slightly to retain hose.



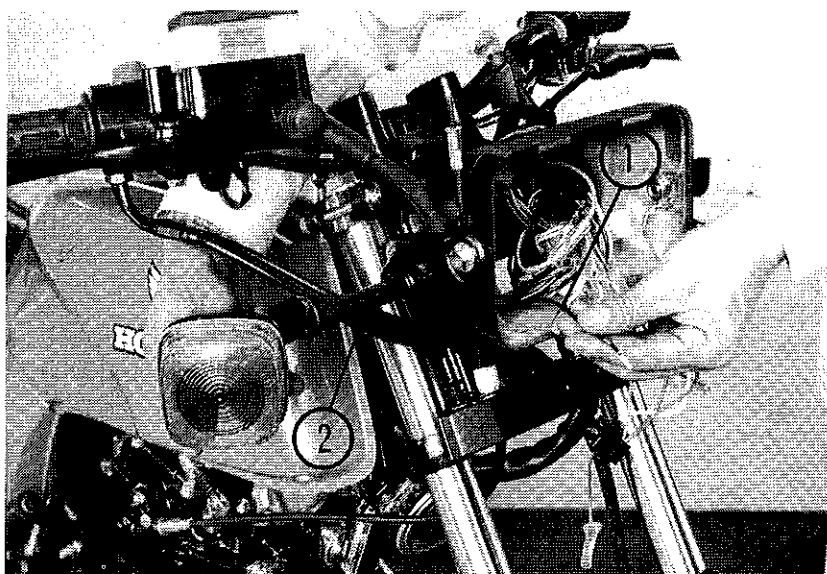
STEP 44 – Remove engine mount bolt (1) and nut loosened in step 19. Put a 10 mm plain washer (2) on bolt (1) and insert bolt through engine mount. Install nut (3) on end of bolt and tighten to specified torque.

Torque specification:

45–70 N·m (4.5–7.0 kg-m, 33–51 ft-lb)



STEP 45 – Route front turn signal wires (1) through turn signal mounts (2) (orange band on left side and light blue band on right side) into headlight case through lower hole.

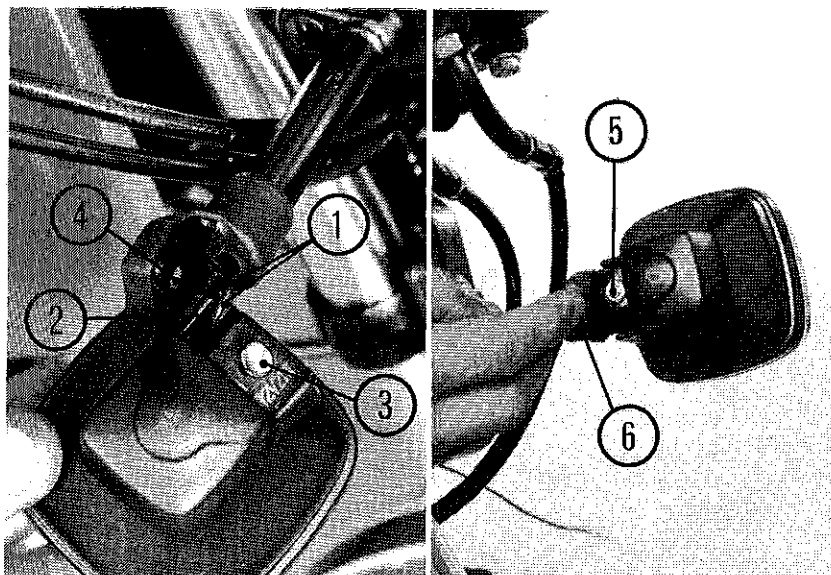


STEP 46 – Set turn signal wires (1) in grooves (2) in signals. Insert studs (3) into holes (4) in signal mounts and install signals using a 5 mm flange nut (5) for each. Tighten nuts to specified torque. Install boots (6).

Torque specification:

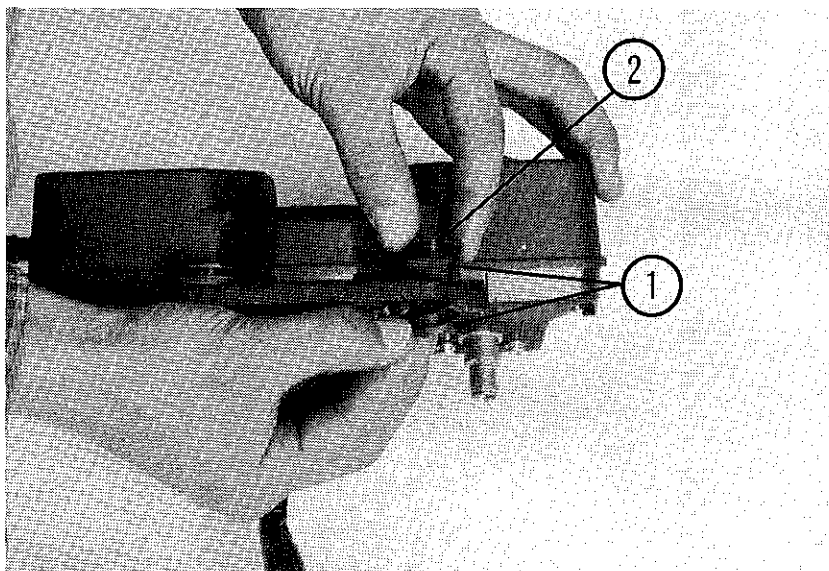
4.5–6.0 N·m (0.45–0.6 kg-m, 3.3–4.3 ft-lb)

NOTE: Before tightening, make sure that nut contacting faces of signal mount are not rusted.



STEP 47 – Insert mount rubbers (1) and setting collars (2) into holes in instrument bracket as shown.

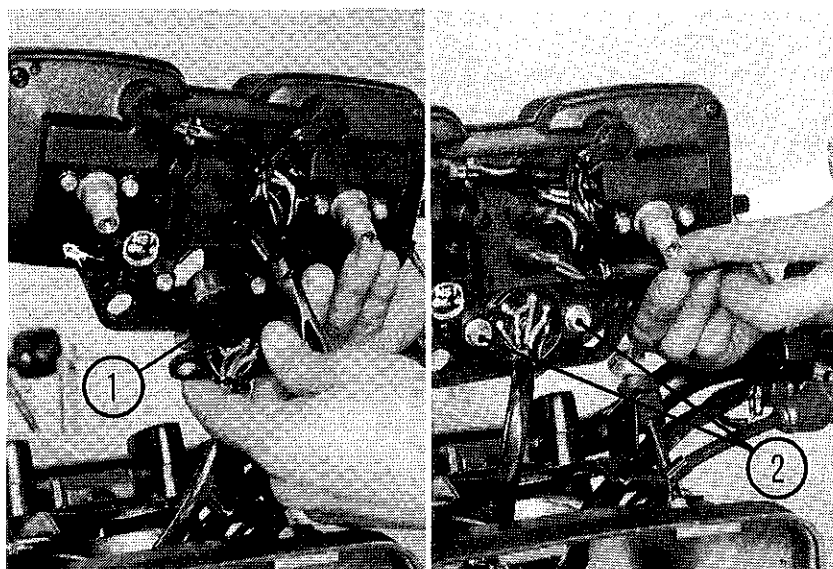
German type: Install cap on trip meter knob.



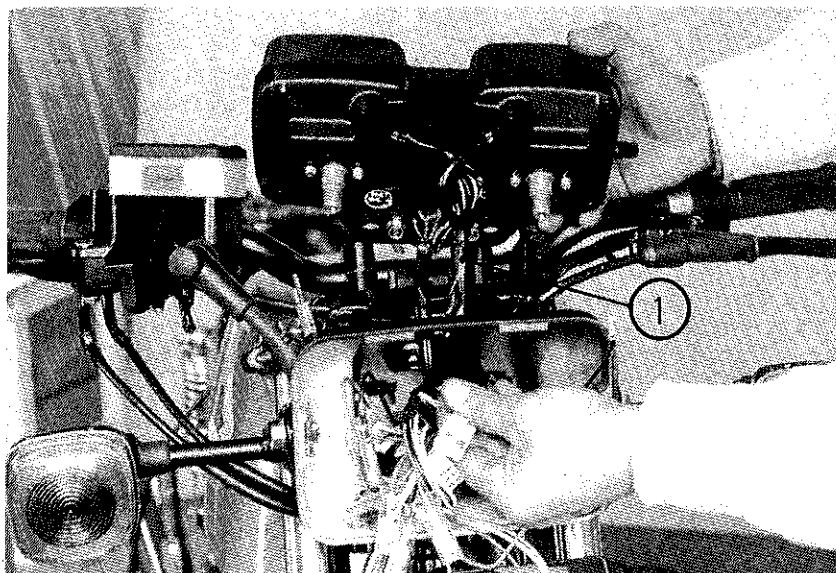
STEP 48 – Install ignition switch (1) on instrument bracket using two 6 x 12 mm flange bolts (2). Tighten bolts to specified torque.

Torque specification:

8–12 N·m (0.8–1.2 kg-m, 6–9 ft-lb)

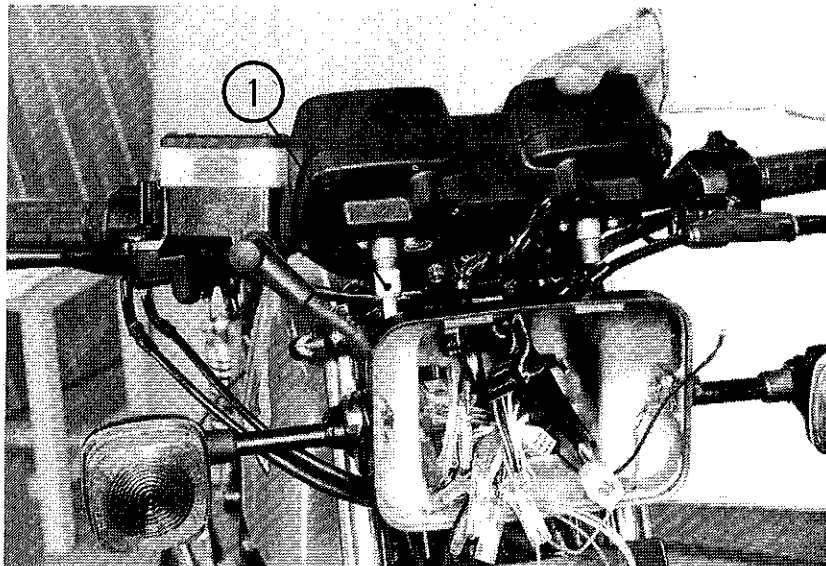


STEP 49 – Route instrument wires (1) down into headlight case through upper hole.



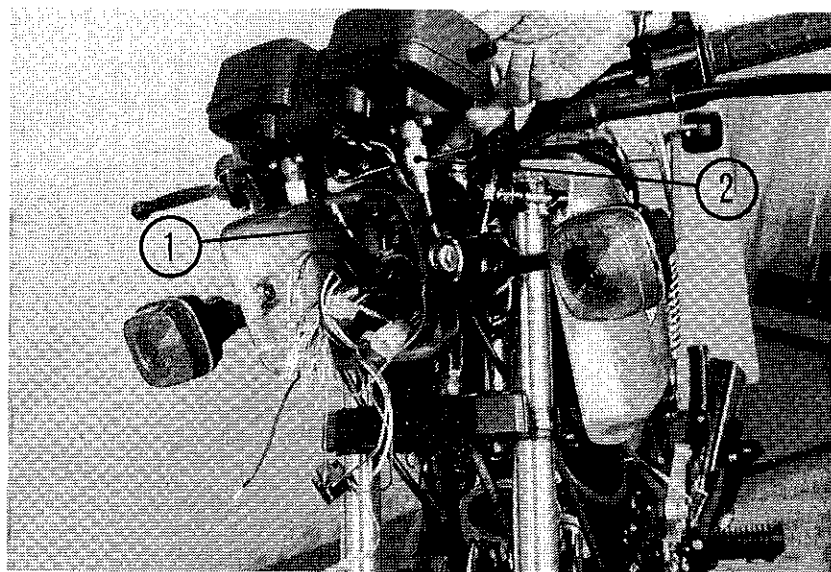
STEP 50 – Connect tachometer cable to tachometer and tighten cable nut (1) with pliers so it cannot be loosened with fingers.

NOTE: Do not overtighten cable nut.



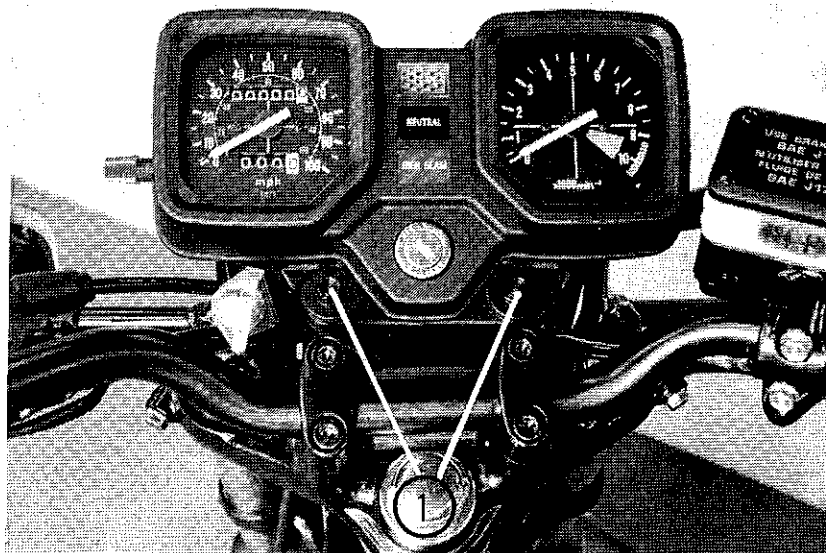
STEP 51 – Route speedometer cable (1) as shown. Connect speedometer cable to speedometer and tighten cable nut (2) with pliers so it cannot be loosened with fingers.

NOTE: Do not overtighten cable nut.

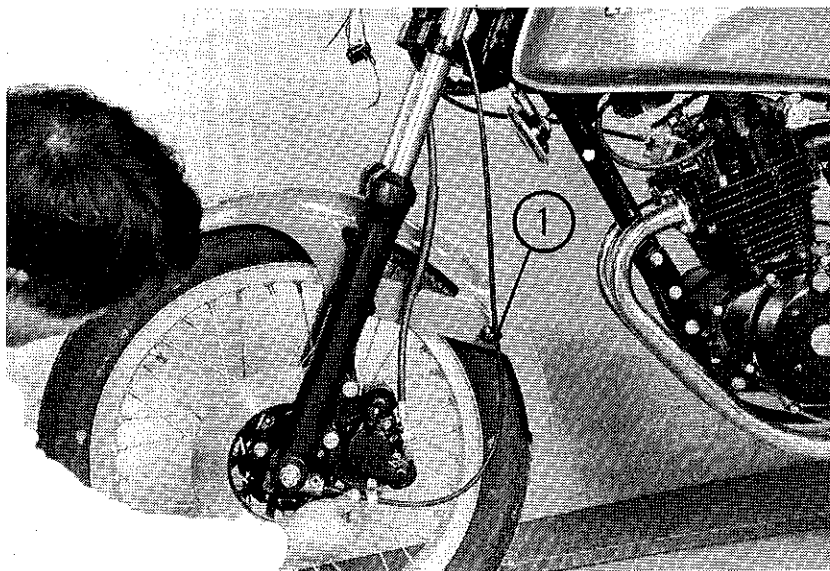


STEP 52 – Position instrument on mounting lugs of fork top bridge and install using two 6 x 25 mm flange bolts (1). Tighten bolts to specified torque.

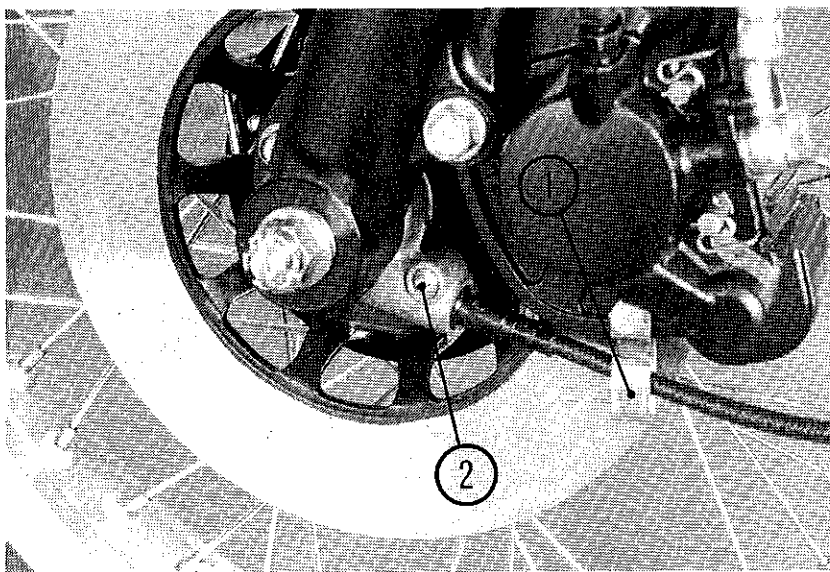
Torque specification:
8–12 N·m (0.8–1.2 kg·m, 6–9 ft·lb)



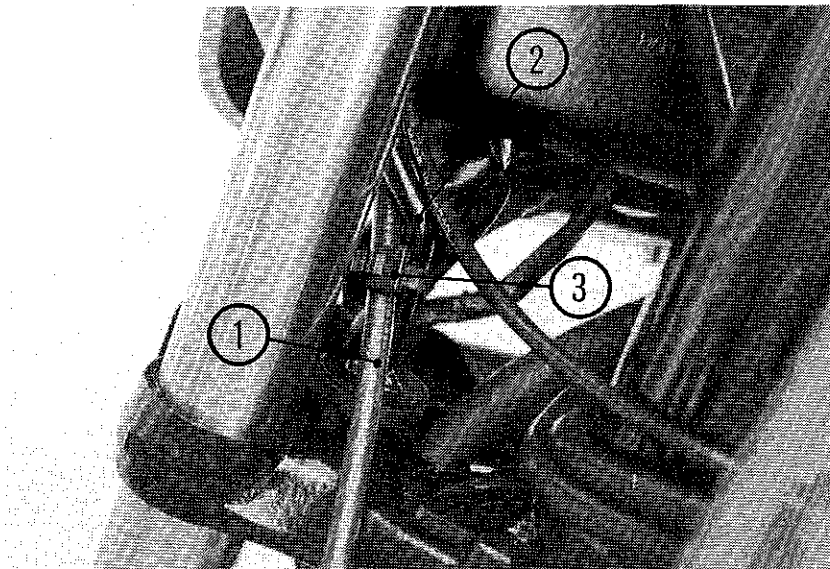
STEP 53 – Route speedometer cable down through cable grommet (1) as shown.



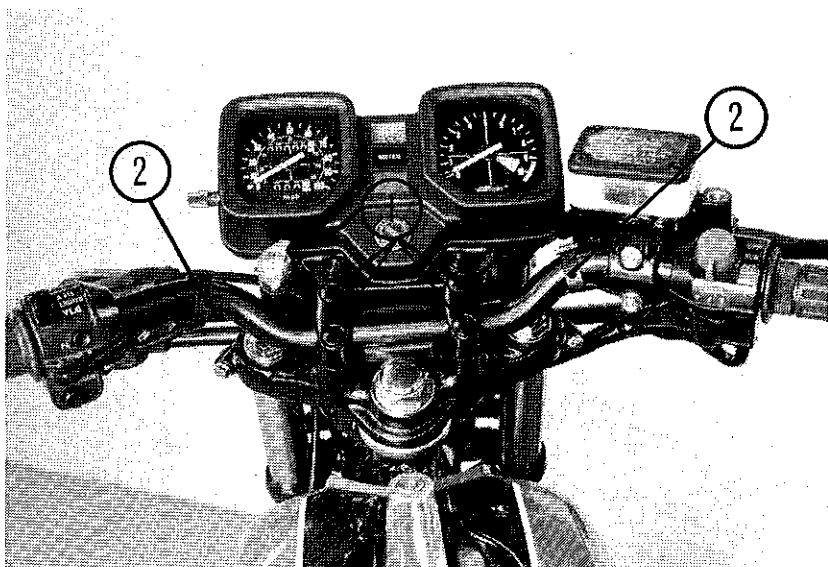
STEP 54 – Route speedometer cable forward through cable clip (1) on brake caliper. Insert end of speedometer cable into speedometer gearbox, aligning slot in cable end with blade in gearbox. Secure cable with 5 x 16 mm oval head screw (2). Tighten screw securely.



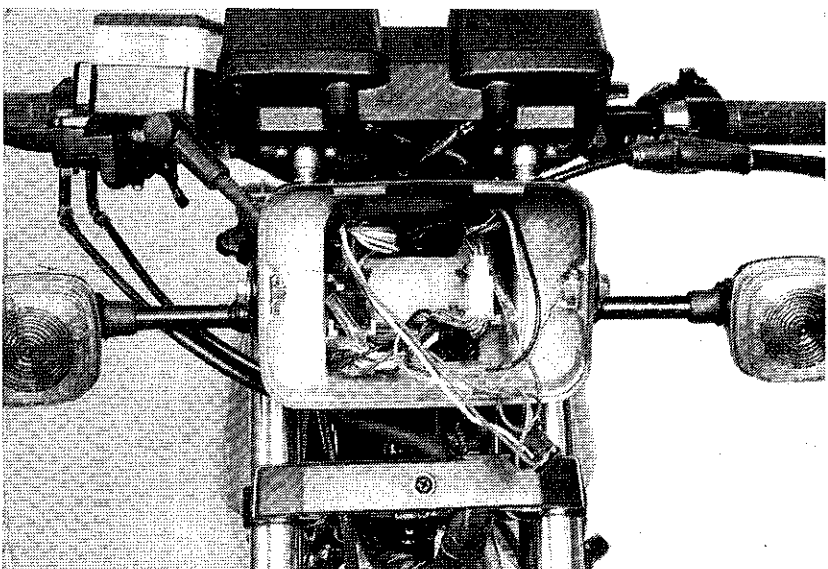
STEP 55 – Secure speedometer cable (1) to headlight bracket (2) using a wire band (3) positioned as shown.



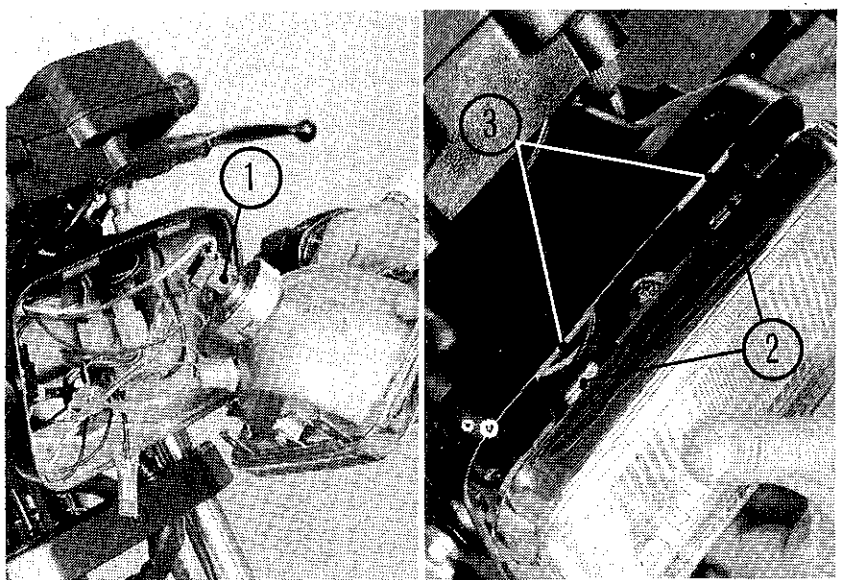
STEP 56 – Insert caps (1) into recesses in heads of socket bolts. Secure right and left handlebar switch wires with two wire bands (2) where shown.



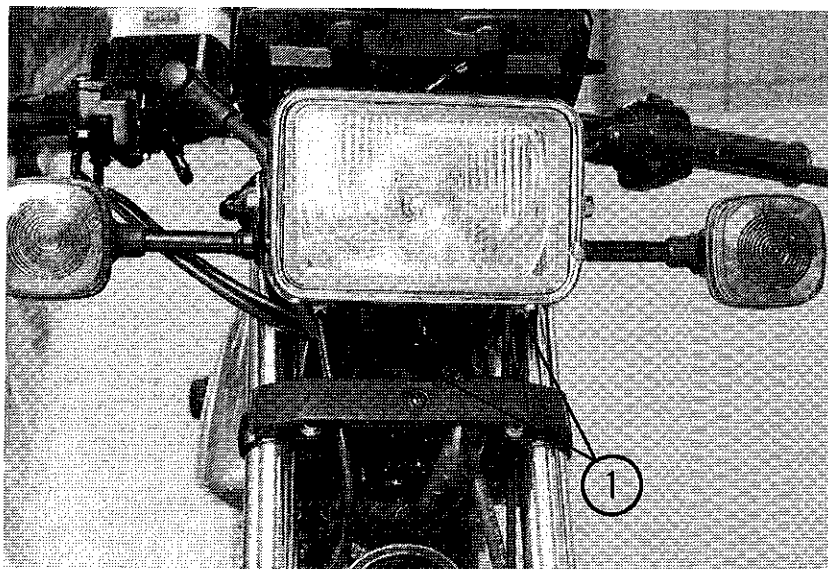
STEP 57 – Connect wire couplers and wires in headlight case colour-to-colour. Position couplers in holders in headlight case as shown.



STEP 58 – Connect headlight receptacle (1) to headlight. Place headlight on headlight case, aligning lug (2) on headlight with retainer (3) inside headlight case.



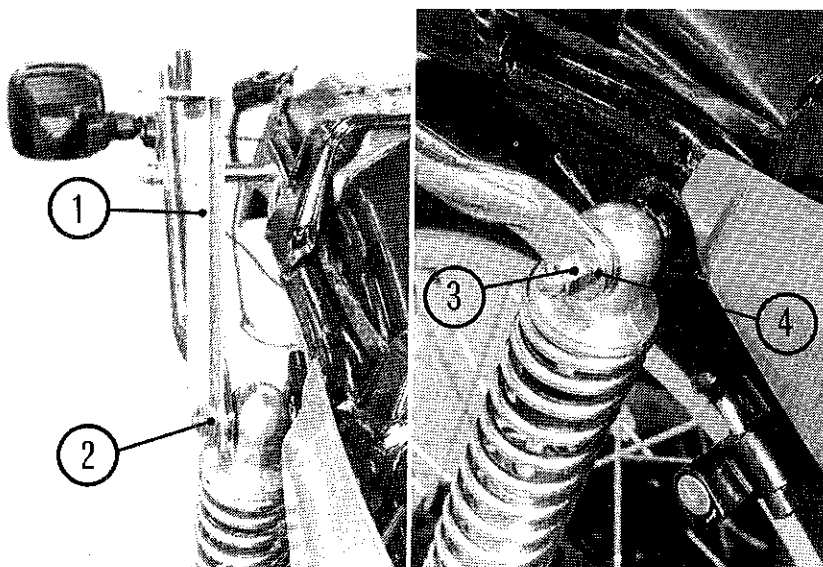
STEP 59 – Install headlight using two 5 x 16 mm screw/lock washer/collar combinations (1). Tighten securely.



STEP 60 – Remove rear shipping brackets (1) by removing two 10 mm nuts (2). Discard brackets and nuts. Install cap nuts (3) and 10.3 mm washers (4) to each rear shock absorber studs. Tighten nuts to specified torque.

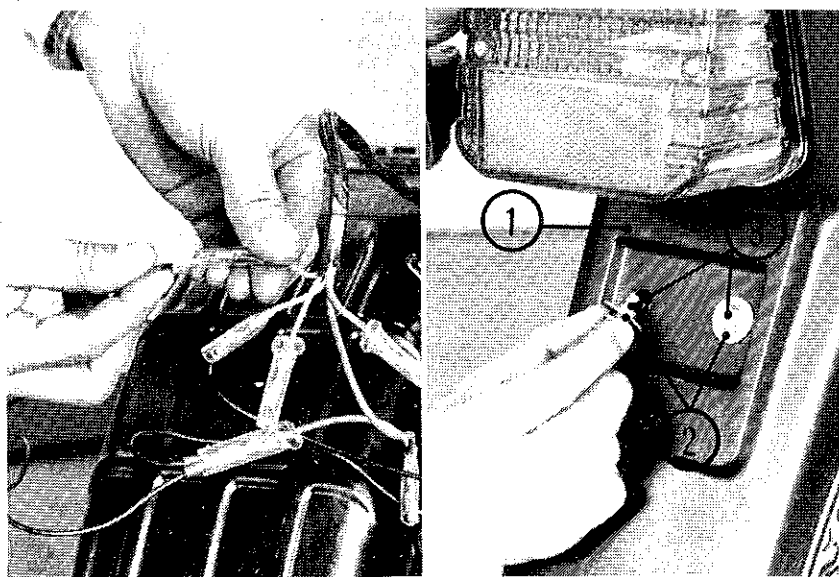
Torque specification:

30–40 N·m (3.0–4.0 kg·m, 22–29 ft·lb)

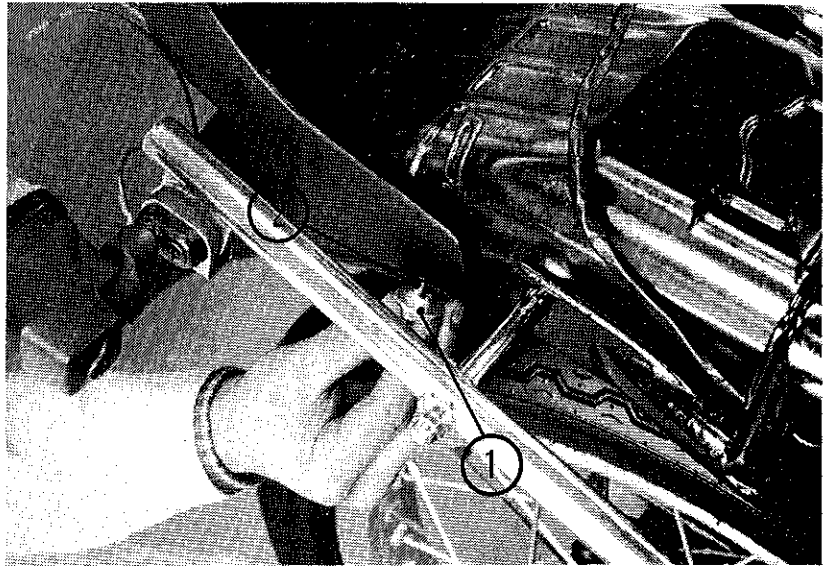


STEP 61 – Disconnect the rear turn signal wires. Install taillight assembly (1) on rear fender "B" loosely using 6 x 20 mm setting collars (circular) (2) and two 6 x 14 mm flange bolts (3).

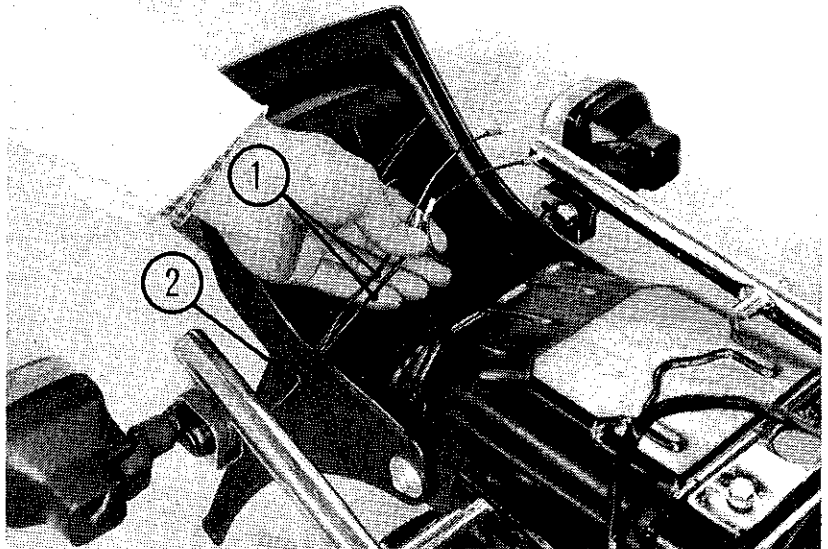
Australian type: Install number plate bracket between bolts and collars.



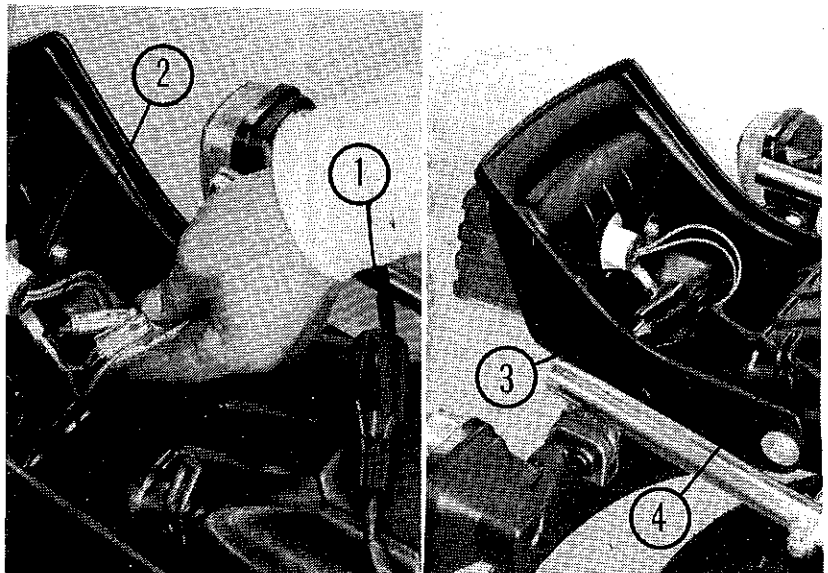
STEP 62 – Loosely install 6 x 9 mm setting collars (semi-circular) (1) and 6 x 12 mm flange bolts (2) through holes in taillight. Tighten two 6 x 14 mm flange bolts, installed in step 61, first, then tighten 6 x 12 mm flange bolts securely.

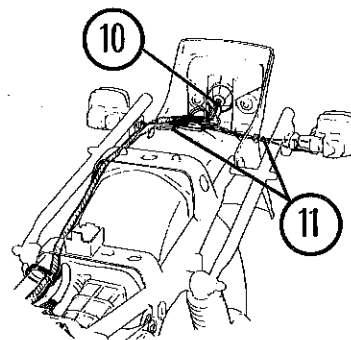
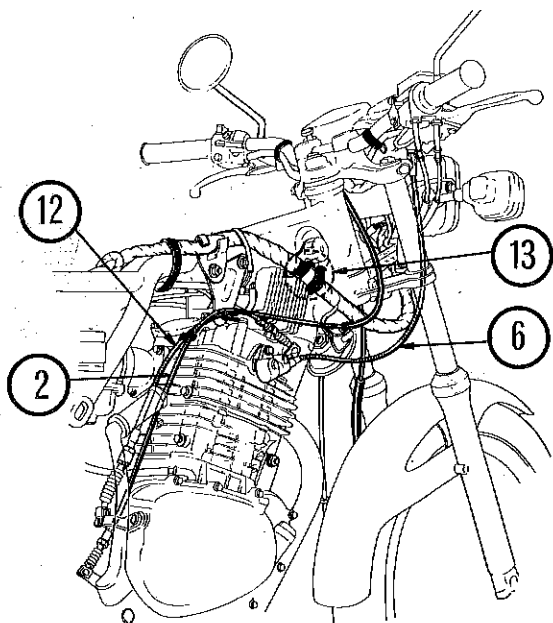
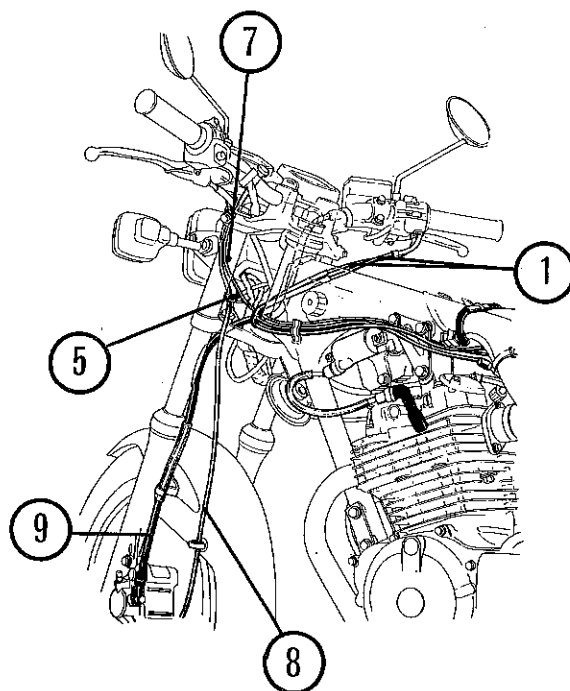
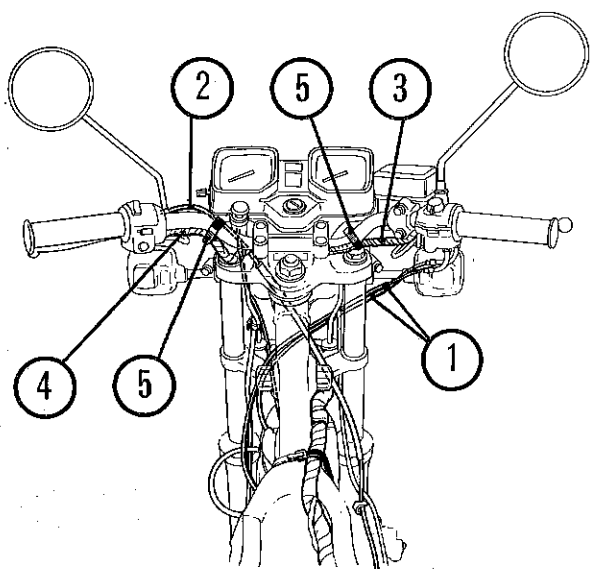


STEP 63 – Route rear turn signal wires (1) into taillight through wire grommets (2) as shown.



STEP 64 – Connect turn signal and taillight wires to wire harness (1) inside taillight colour-to-colour. Connect green connector (2) of wire harness to taillight terminal as shown. Slip connector cover (3) over connections and strap wire harness to rear fender "B" using a wire clamp (4) as shown.

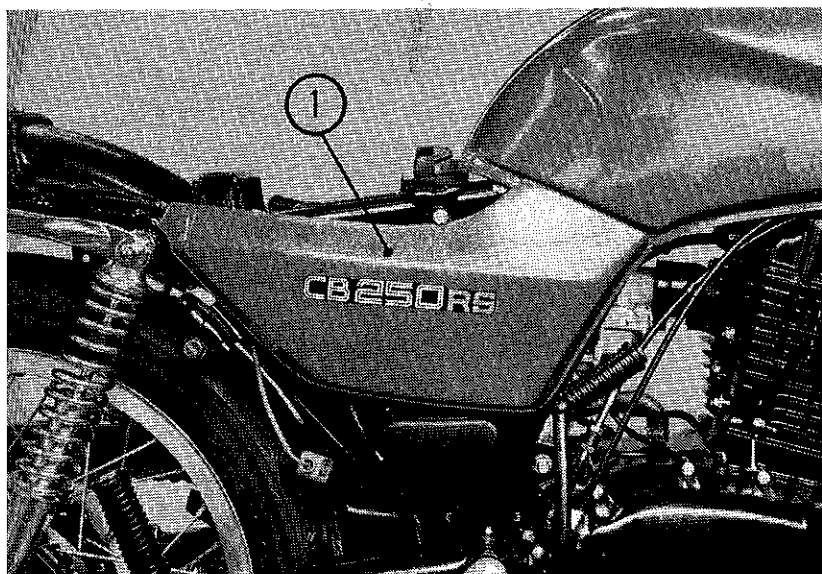




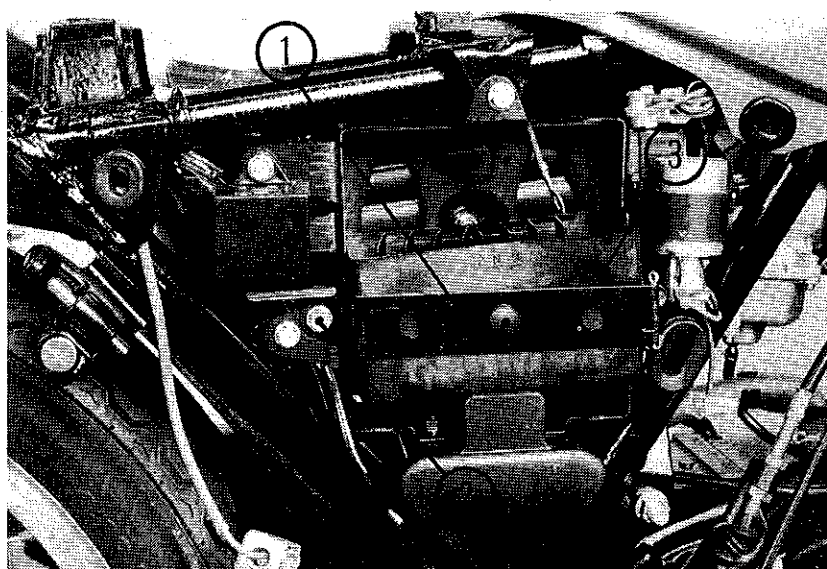
STEP 65 – Check routing of all wire harnesses, hoses and cables as shown.

- (1) Throttle cables
- (2) Clutch cable
- (3) Right handlebar switch wires
- (4) Left handlebar switch wires
- (5) Wire band
- (6) Tachometer cable
- (7) Choke cable
- (8) Speedometer cable
- (9) Front brake hose
- (10) Taillight wires
- (11) Turn signal wires
- (12) Starter decompressor cable
- (13) White tape

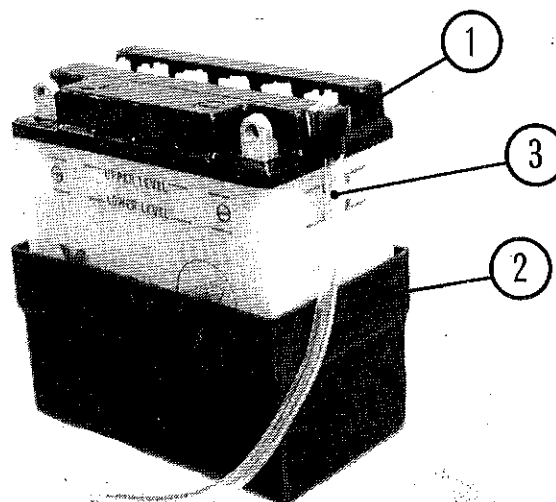
STEP 66 – Remove right side cover (1).



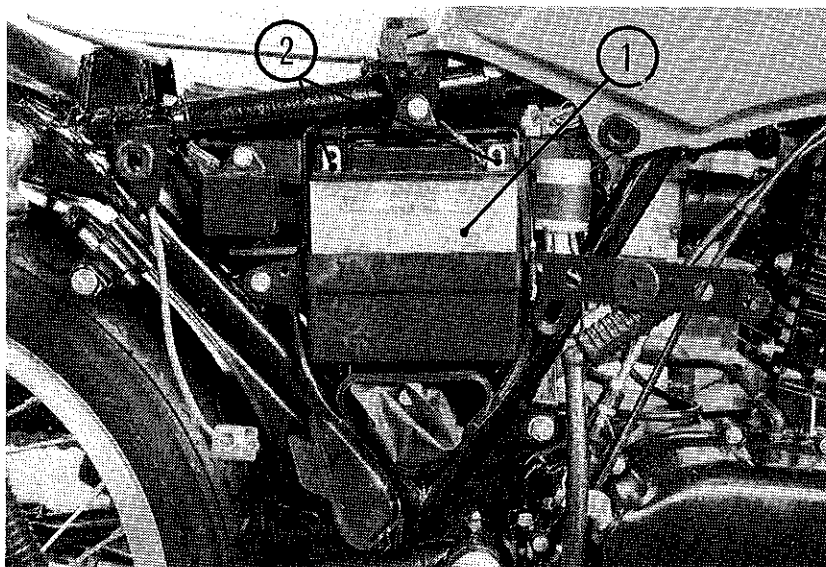
STEP 67 – Open battery holder (1) by removing 6 mm bolt (2). Retain 6 mm bolt for reinstallation. Remove battery cover (3) from battery compartment. Make sure that ignition switch is turned "OFF".



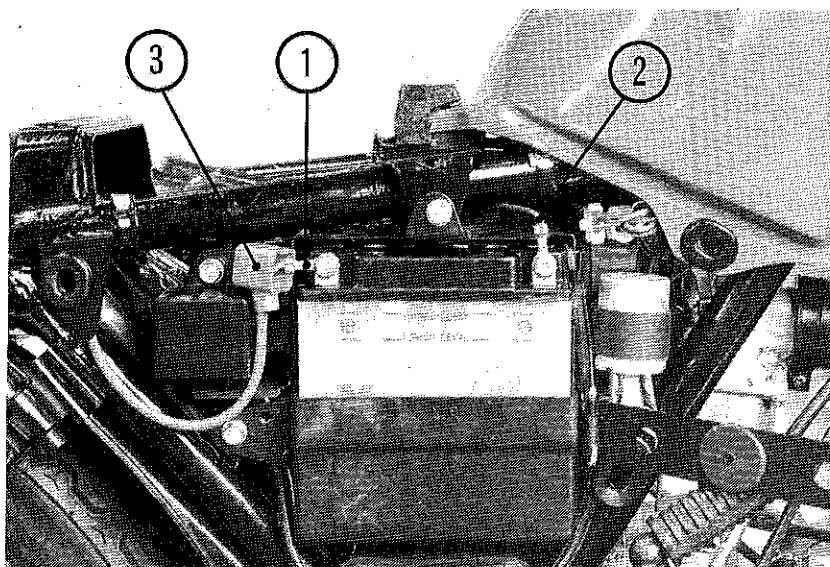
STEP 68 – Install battery (1) in battery cover (2) and connect battery breather tube (3). Service battery as described in battery preparation booklet packed with battery.



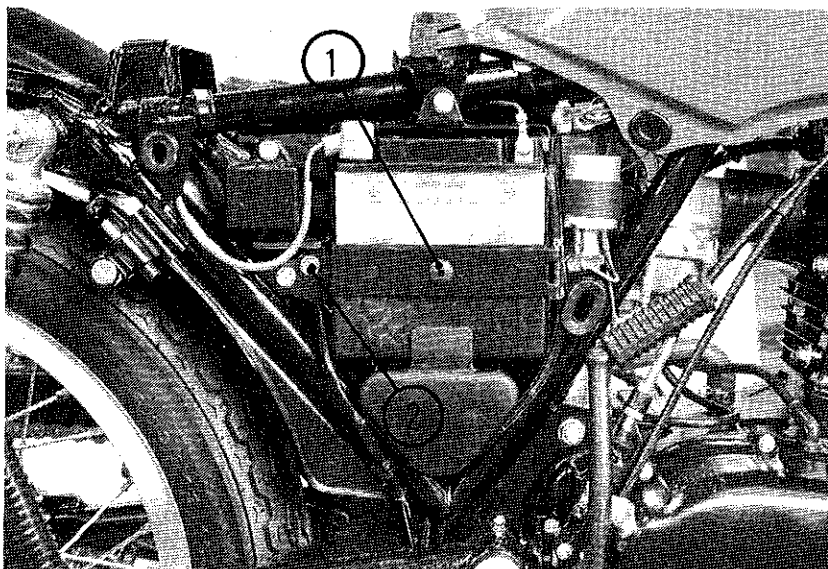
STEP 69 – Install battery (1) in battery compartment with terminals (2) facing outside.



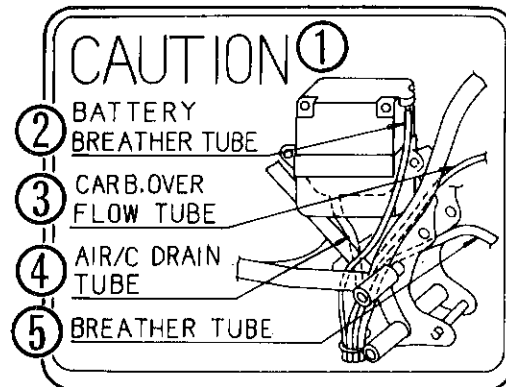
STEP 70 – Connect positive (+) cable (1) first, then connect negative (–) cable (2). Tighten securely and coat terminals with grease. Place terminal cover (3) over positive terminal.



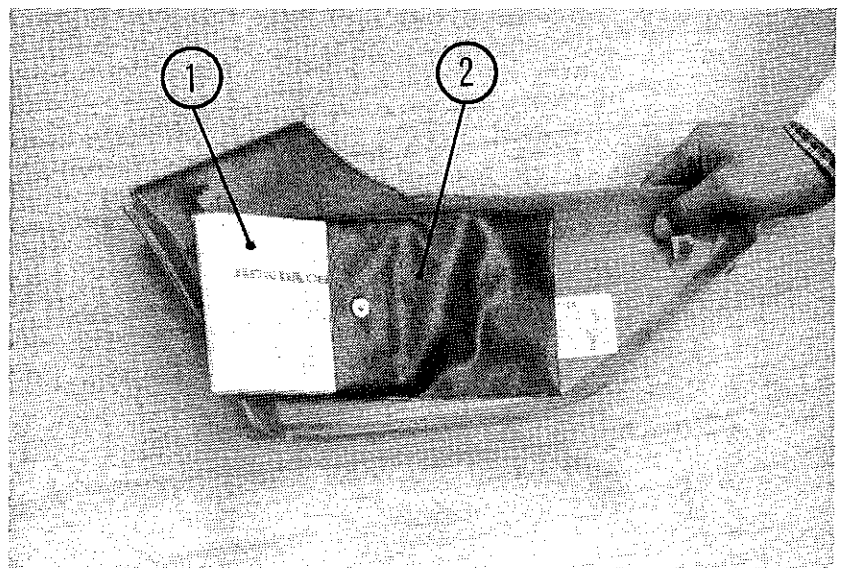
STEP 71 – Install battery holder (1) using 6 mm bolt (2) retained.



STEP 72 – Route battery breather tube as shown on battery caution label located inside light side cover.

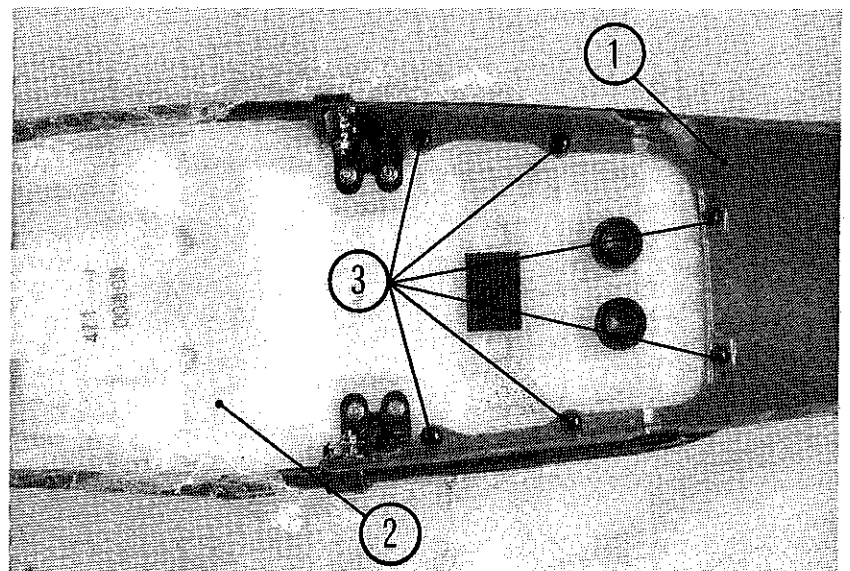


STEP 73 – Place owner's manual (1) in bag (2) inside right side cover, and reinstall right side cover.

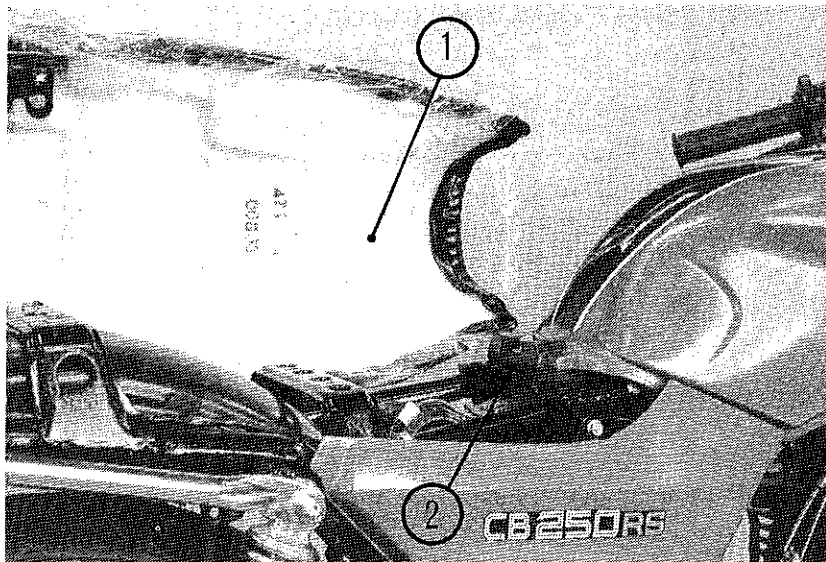


STEP 74 – Attach rear cowl (1) to seat (2) using six 5 x 16 mm self-tapping screws and 5 mm plain washers (3). Tighten screws until seat, cowl and screws contact.

NOTE: Do not overtighten screws as this will strip threads easily.



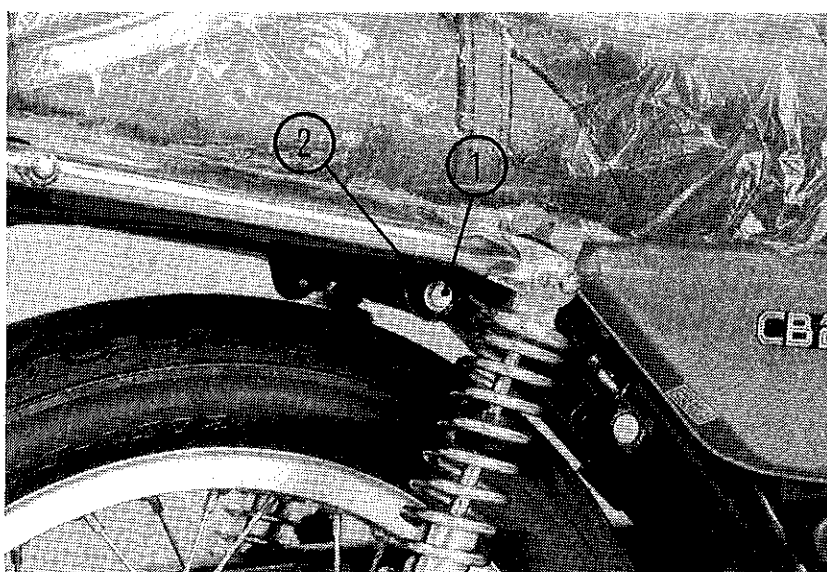
STEP 75 – Install seat and push seat forward until seat prong (1) is inserted under frame (2) securely.



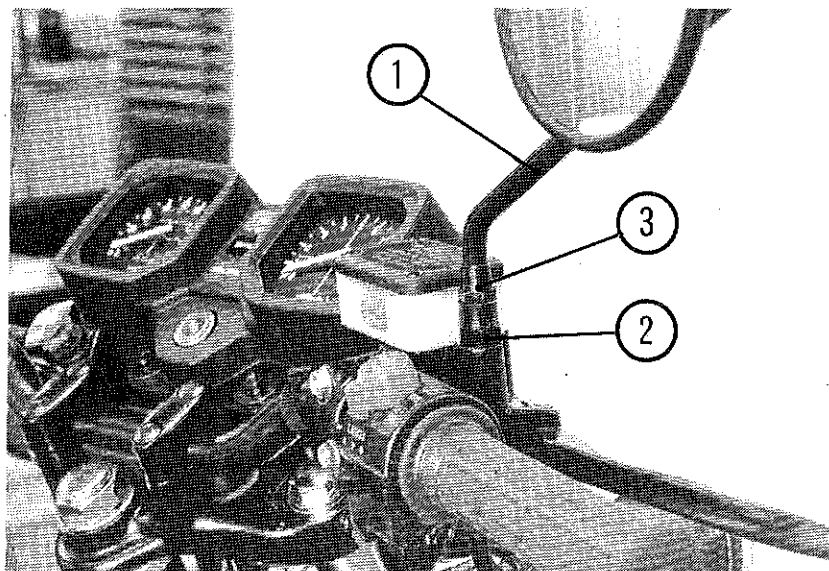
STEP 76 – Install 8 x 12 mm flange bolts (1) through seat tabs (2). Tighten bolts to specified torque.

Torque specification:

18–25 N·m (1.8–2.5 kg-m, 13–18 ft-lb)



STEP 77 – Install right and left rear view mirrors (1). Tighten lower lock nuts (2). Adjust mirrors prior to delivery. Tighten upper lock nuts (3).



NOTE: Check all items listed on the following Pre-delivery Service Check List. Refer to owner's or shop manual for specifications and detailed procedures. Always test ride the unit to make sure that it is functioning properly.

PRE-DELIVERY SERVICE CHECK LIST

- ☐ Fill front brake master cylinder reservoir with DOT 3 (previous designation SAE J 1703) brake fluid, and bleed brake system.
- ☐ Adjust rear brake and check operation of front and rear brakes.
- ☐ Adjust clutch, check cable routing and check operation.
- ☐ Drain oil from crankcase and filter (if necessary). Refill crankcase with recommended oil.
- ☐ Remove and inspect fuel tank, drain and flush.
- ☐ Adjust cam chain tension.
- ☐ Check valve clearance, adjust if necessary.
Intake: 0.05 mm (0.002 in.)
Exhaust: 0.10 mm (0.004 in.)
- ☐ Reinstall fuel tank, fill, turn on petcock and check for leaks.
- ☐ Check ignition timing.
- ☐ Adjust idle speed.
- ☐ Adjust carburettor.
- ☐ Check choke knob operation.
- ☐ Check throttle grip free play, cable routing, and operation in all steering positions.
- ☐ Adjust and lubricate drive chain.
Slack: 15–25 mm (5/8–1 in.)
- ☐ Check wheel spoke tension.
2.5–5.0 N·m (0.25–0.5 kg·m, 1.8–3.6 ft·lb)
- ☐ Install and adjust mirrors.
- ☐ Check tyre pressures.
Front: 175 kpa (1.75 kg·cm², 24 psi)
Rear: 225 kpa (2.25 kg·cm², 32 psi)
- ☐ Check operation and adjustment of front and rear suspension.
- ☐ Inspect electrical components for proper operation and adjustment:
 - Headlight: Adjust high and low beam aim, and check high beam pilot light.
 - Tail and stoplight.
 - Stoplight and switches: Adjust and check operation with both front and rear brake controls.
 - Turn signals.
 - Running lights.
 - Horn.
 - Engine stop switch.
 - Instrument, flasher and neutral indicator lights.
 - Battery charging system.
- ☐ Check security of all nuts, bolts and other fasteners.
- ☐ Check to ensure all applicable recall and product update campaigns are complied with.
- ☐ **TEST RIDE:** Check performance, handling and operation.
 - Transmission and clutch: Ease of shifting, clutch operation, etc.
 - Acceleration: Smoothness, etc.
 - Cruising: Smoothness, etc.
 - Handling: Stability and cornering.
 - Brakes: Smoothness and stopping power.
 - Idling: Smoothness, throttle response, response, return to idle.
 - Check idle speed after 10 minutes of stop and go driving.
 - Speedometer and tachometer: Proper operation.
 - Upon completion of test ride, check for fuel and oil leaks.

PARTS PACKAGE CONTENTS

The following is a list of items contained in parts package carton located behind front forks, and is shown for one motorcycle.

DESCRIPTION	Q'TY	PARTS NUMBERS	AREA CODE
Front wheel assembly	1		
Axle	1	44301-413-000	
Side collar	1	44311-413-000	
Plain washer, 15.2 mm	1	90557-230-000	
Axle nut	1	90305-401-680	
Split pin, 3.0 x 25 mm	1	94201-30250	
Axle nut cap	1	44302-351-610	G
Axle holder	1	95014-41100	
Plain washer, 8 mm	2	94101-08000	
Lock washer, 8 mm	2	94111-08000	
Nut, 8 mm	2	94030-08000	
Speedometer gearbox	1	44800-442-700	
Oval screw, 5 x 16 mm	1	93700-05016-0A	
Front fender assembly	1		
Setting collar	4	90556-044-000	
Flange bolt, 6 x 16 mm	4	95700-06016-08	
Headlight assembly	1		
Upper holder	2	53131-371-000	
Socket bolt, 8 x 32 mm	4	90185-371-000	
Socket bolt cap	4	91456-371-770	
Front brake master cylinder holder	1	45517-422-006	
Flange bolt, 6 x 25 mm	2	95700-06025-00	
Screw, 5 x 25 mm (L. handlebar switch housing)	2	93500-05025-0A	
Headlight assembly	1	33100-471-601	E
Headlight assembly	1	33100-471-611	ED, G, SW, SD, BH
Headlight assembly	1	33100-471-621	F
Headlight assembly	1	33100-471-003	U. SA
Headlight setting collar	2	61304-292-000	
Lock washer, 5 mm	2	94111-05000	
Screw, 5 x 16 mm	2	93500-05016-0B	
Instrument assembly	1		
Mount rubber	4	37242-471-000	
Setting collar	2	37206-471-000	
Flange bolt, 6 x 25 mm	2	95700-06025-07	
Flange bolt, 6 x 12 mm (ignition switch)	2	95700-06012-08	
Trip meter knob cap	1	37202-371-610	G
Speedometer cable	1	44830-471-000	
Wire band (speedometer cable)	1	32161-404-610	
Front turn signal assembly, R.	1	33400-471-601	E, G, F, ED, SW, SD, BH
Front turn signal assembly, R.	1	33400-471-003	U, SA
Front turn signal assembly, L.	1	33450-471-601	E, G, F, ED, SW, SD, BH
Front turn signal assembly, L.	1	33450-471-003	U, SA
Flange nut, 5 mm	2	94050-05000	

Rearview mirror, R.	1	88110-471-000	G, ED, SW, SD, BH, SA
Rearview mirror, R.	1	88110-166-622	E, F
Rearview mirror, R.	1	88110-369-650	U
Rearview mirror, L.	1	88120-471-000	G, ED, SW, SD, BH, SA
Rearview mirror, L.	1	88120-166-622	E, F
Rearview mirror, L.	1	88120-369-650	U
Wire band (handlebar switch wires)	2	32161-404-000	
Seat assembly	1	77200-471-000	E, F, ED, U, SW, SD, BH, SA
Seat assembly	1	77200-471-610	G
Seat cowl	1	77210-471-000	
Self-tapping screw, 5 x 16 mm	6	93903-35380	
Plain washer, 5 mm	6	94103-05700	
Flange bolt, 8 x 12 mm	2	95700-08012-00	
Battery assembly	1	31500-471-601	
Taillight assembly	1		
Setting collar, 6 x 20 mm	2	90512-300-000	
Number plate bracket	1	84701-471-000	U, SA
Flange bolt, 6 x 14 mm	2	95700-06014-00	
Setting collar, 6 x 9 mm	2	90513-323-000	
Flange bolt, 6 x 12 mm	2	95700-06012-00	
Cap nut (rear shock absorber)	2	90309-315-000	
Plain washer, 10.3 mm (rear shock absorber)	2	90521-292-000	
Plain washer, 10 mm (engine mount bolt)	1	94102-10000	
Owner's manual	1	3647100	

AREA CODE:

E: UK type
 G: German type
 F: French type
 ED: European direct sales type
 U: Australian type
 SW: Swiss type
 SD: Swedish type
 BH: Belgian type
 SA: South African type

NOTES:

- No marked part on "AREA CODE" are used for all models.
- For details, refer to Parts List and News.

