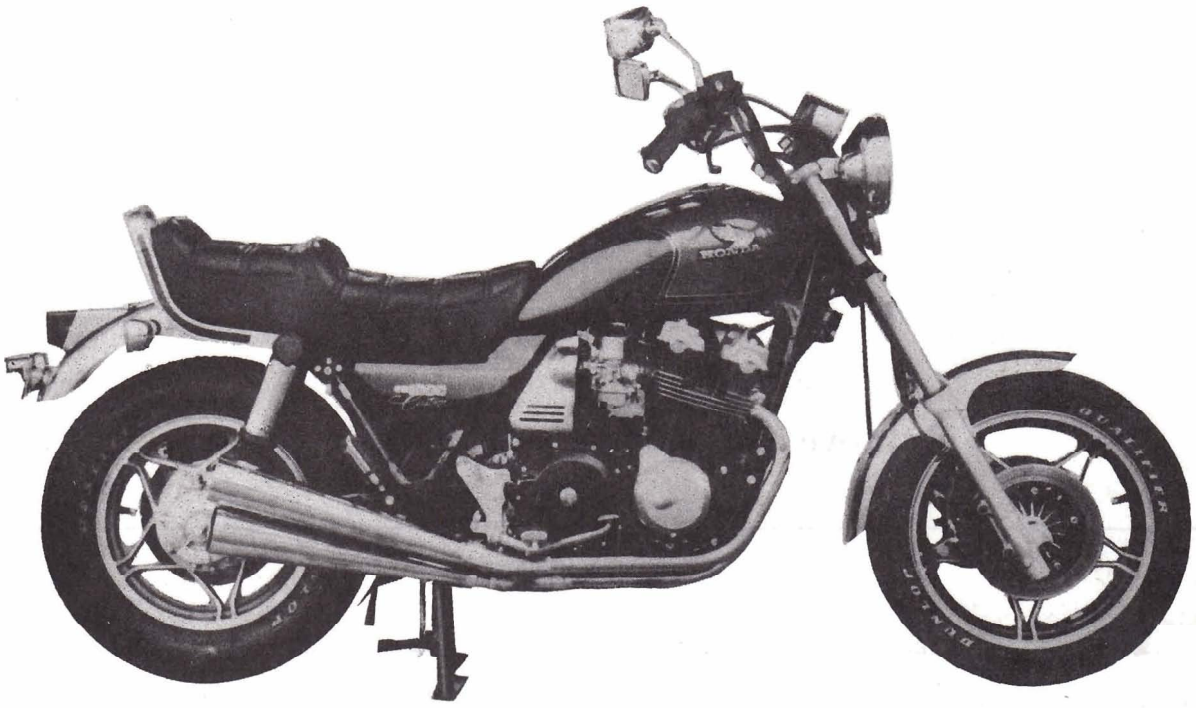
Set-up Instructions

1983 Model CB1000C

AMERICAN HONDA MOTOR CO., INC.
100 WEST ALONDRA BOULEVARD, GARDENA, CALIFORNIA 90247

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.

Date of Issue: 10/82

SET-UP INSTRUCTION
REVISED PAGES

Pages Affected	Orig. Issue Date	Rev. Date
1 through 37	10/82	Original

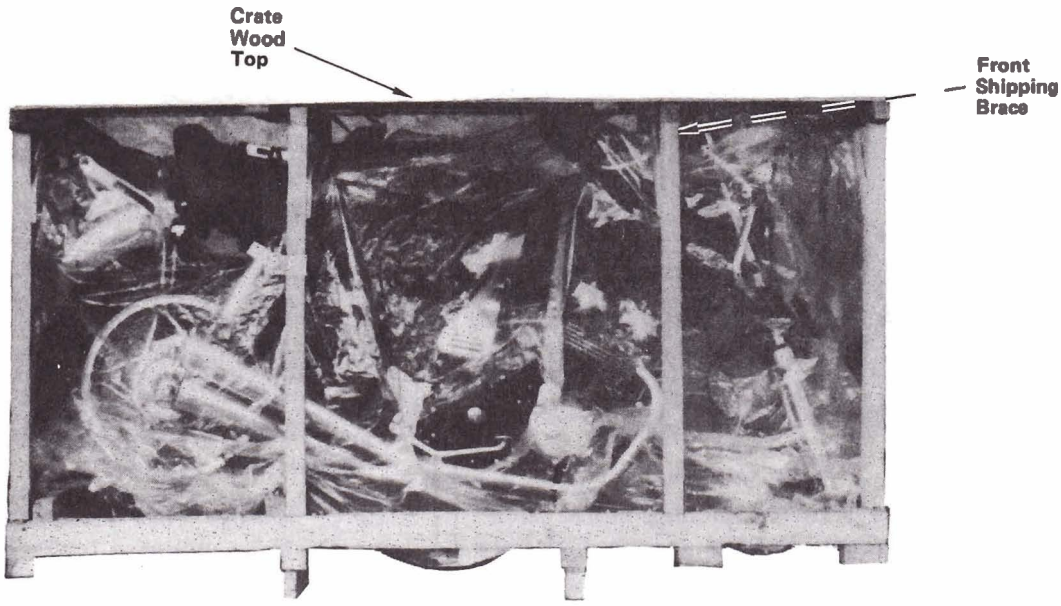
Remove and destroy superseded pages.

Pay special attention to warnings, cautions, and notes.

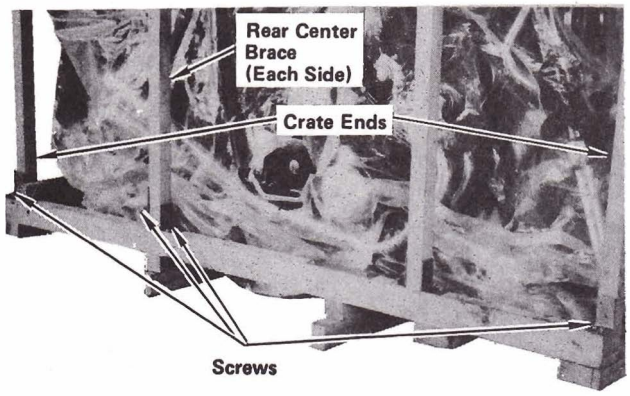
WARNING means hazards or unsafe practices which could cause severe personal injury or death.

CAUTION: means hazards or unsafe practices which could cause minor personal injury or product or property damage.

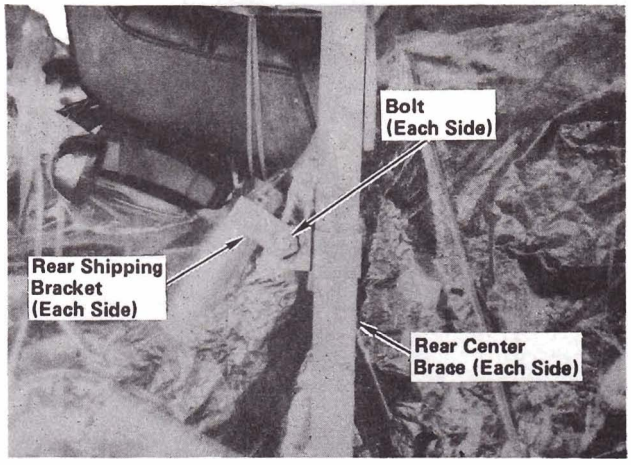
NOTE: gives helpful information.



STEP 1—Cut straps and lift off carton cover. Remove all nails attaching crate wood top to front shipping brace.



STEP 2—Remove screws attaching front and rear crate ends and rear center braces to crate base.



STEP 3—Remove bolts attaching right and left rear shipping brackets to rear center braces. Discard bolts. Remove tie holding rear handrail brackets to crate.

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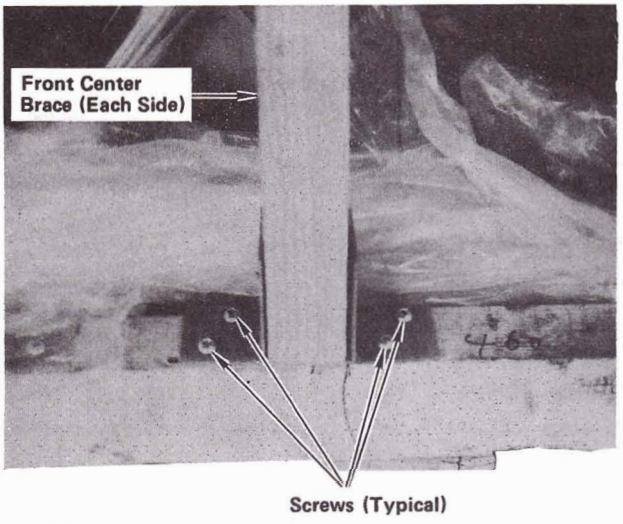
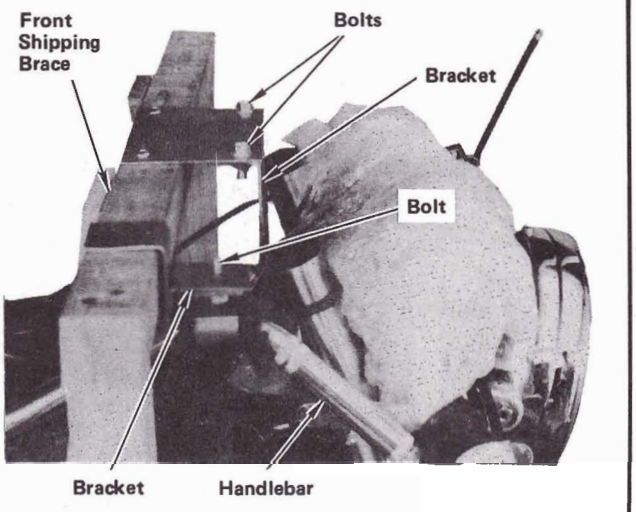


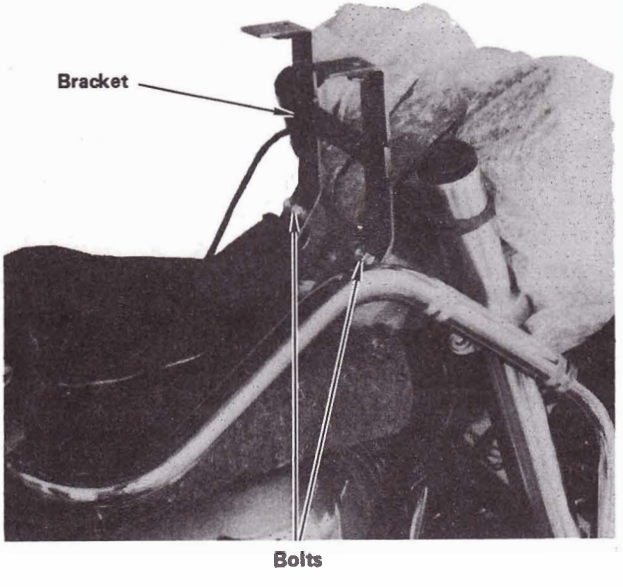
STEP 4—Remove screws attaching front center braces to crate base. Discard screws. Carefully lift off wood crate frame using two people.

CAUTION: Use extreme care to prevent damaging motorcycle with crate frame.

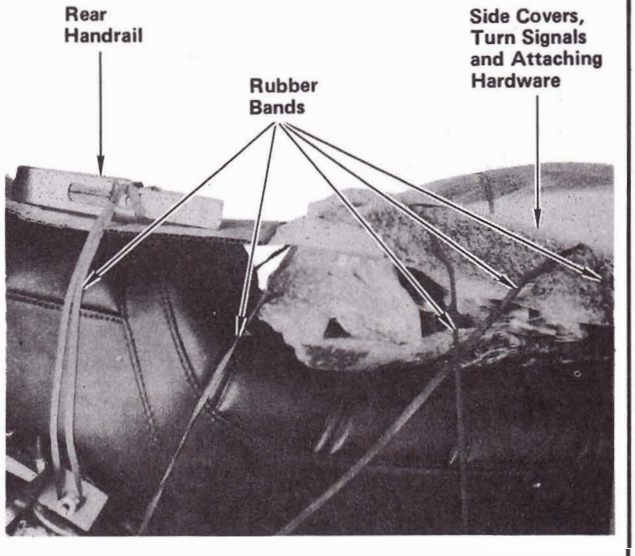


STEP 5—Remove bolts attaching front shipping brace to front shipping brace bracket. Place a cover over fuel tank to prevent damage. Remove bolt attaching handlebar bracket to shipping brace. Remove bracket from handlebar. Discard bracket and all attaching hardware. Carefully lift off front center brace and discard.

CAUTION: Do not allow front center brace to fall and damage motorcycle.



STEP 6—Remove bolts attaching front shipping brace bracket to lower handlebar holders. Discard bolts and bracket.



STEP 7—Remove loose parts from seat by removing rubber bands.

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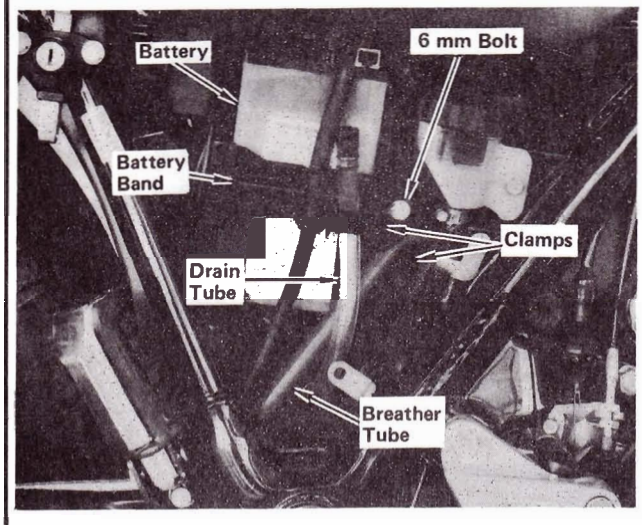
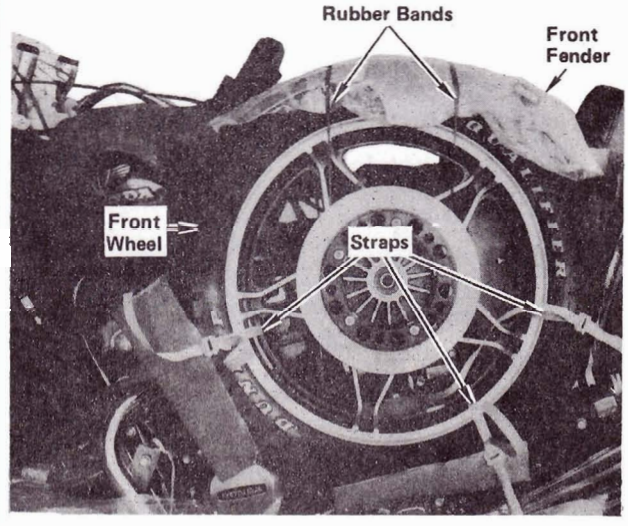
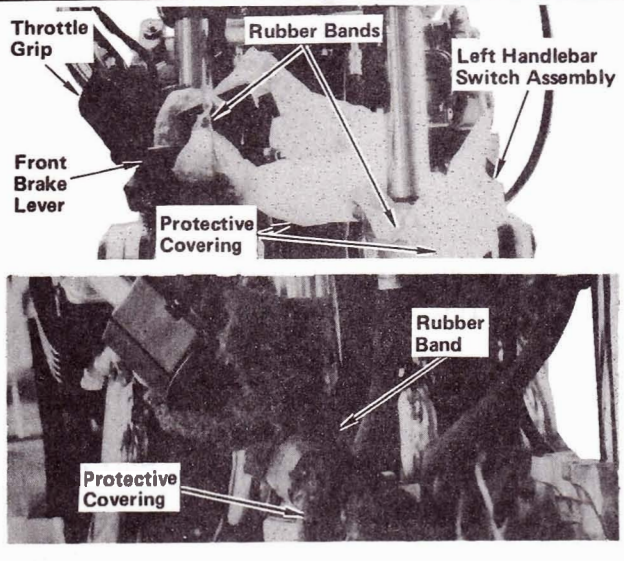


STEP 8—Remove and retain 6 mm bolt attaching battery band. Remove crankcase breather tube and drain tube from clamps. Swing battery band out of way and remove battery from battery compartment. Reinstall battery band using 6 mm bolt retained. Do not tighten bolt at this time.

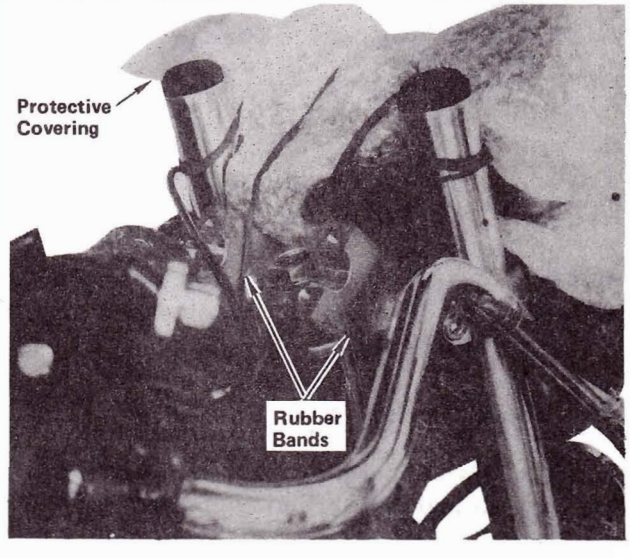


STEP 9—Remove front fender from front wheel by removing rubber bands. Remove front wheel from crate base by removing straps.



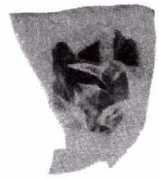
STEP 10—Remove rubber bands and ties attaching throttle grip, front brake lever, and left handlebar switch assembly to fork legs. Remove all protective coverings.

CAUTION: Do not hang master cylinder by brake hose.



STEP 11—Remove protective covering from handlebar lower holders by removing rubber bands. Use care not to drop instruments on headlight case.

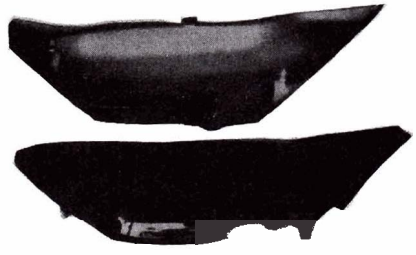
Front Wheel



Reflectors and Handlebar Cover

Front Fender

Mirrors



Side Covers

Attaching Hardware, Fork Stabilizer and Speedometer Gearbox

Battery

Right Foot Peg

Rear Handrail

STEP 12—Unpack remaining loose parts and check against this illustration. Report any damaged or missing parts immediately to American Honda Motor Co., 100 West Alondra Blvd., Gardena, California 90247.

Damaged or Missing Parts

Identify missing parts by referring to the "Loose Parts List" at the end of the set-up. Order parts through normal parts ordering procedures.

It is necessary to differentiate between parts lost or damaged in transit, and parts left out by the factory.

- For parts lost or damaged in transit, file a SHIPPING DAMAGE CLAIM.
- For parts left out by the factory, file a WARRANTY CLAIM W.O.2.

Refer to the Warranty Policy and Procedures Manual (SO 945) under **Shipping Damage and Crate Shortage** for further information.

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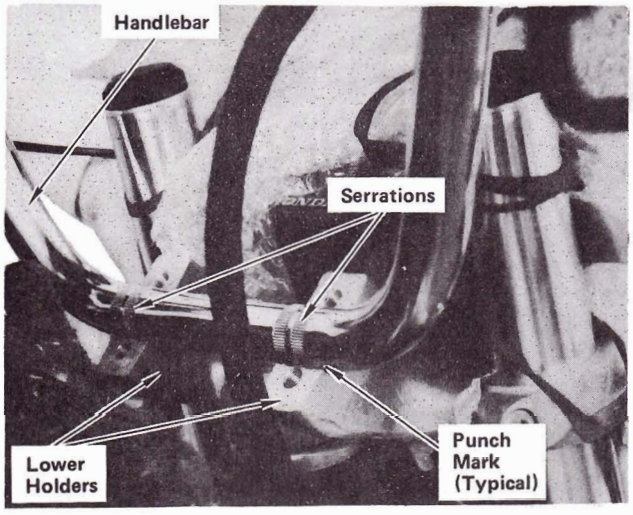
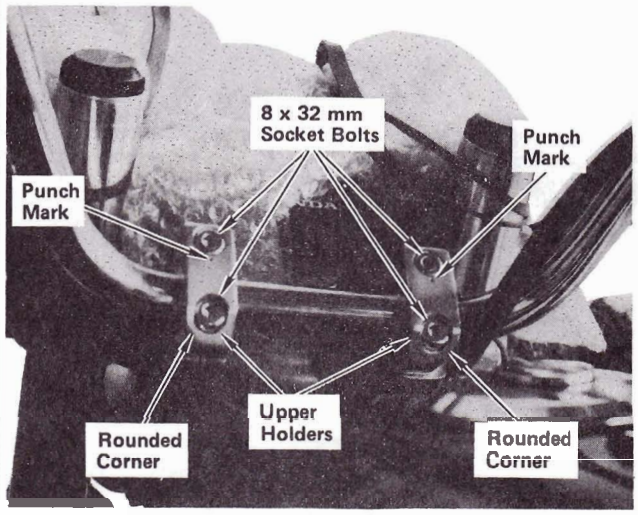


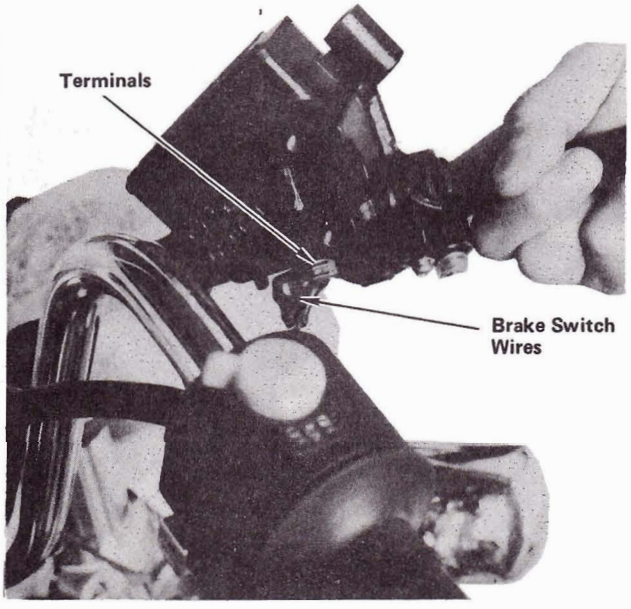
STEP 13—Position handlebar on lower holders with serrations aligned with lower holders and punch marks on handlebar aligned with top of holders.

CAUTION: Check that throttle cables are not twisted.

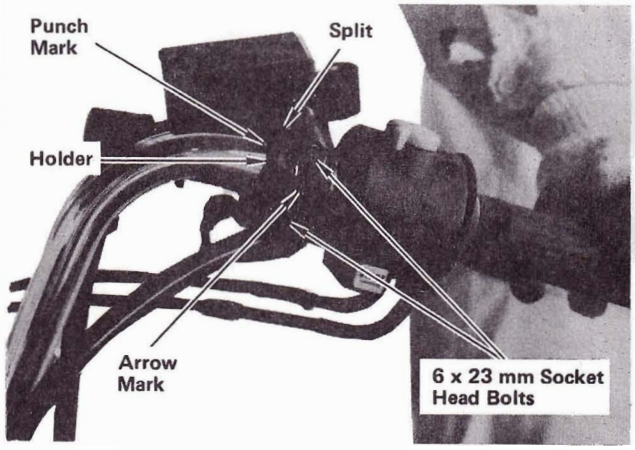


STEP 14—Position handlebar upper holders on handlebar with punch marks forward and rounded corner facing outward. Install holders loosely using four 8 x 32 mm socket head bolts. Tighten forward bolts to specified torque first, then tighten rear bolts to same torque.

Torque specification:
2.5 kg-m (19 lb-ft)



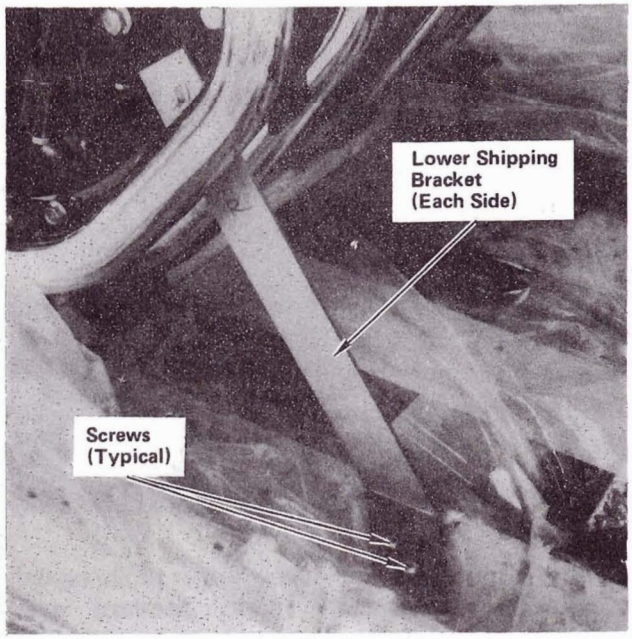
STEP 15—Connect front brake stoplight switch wires to terminals as shown. Slip terminal cover over terminals.



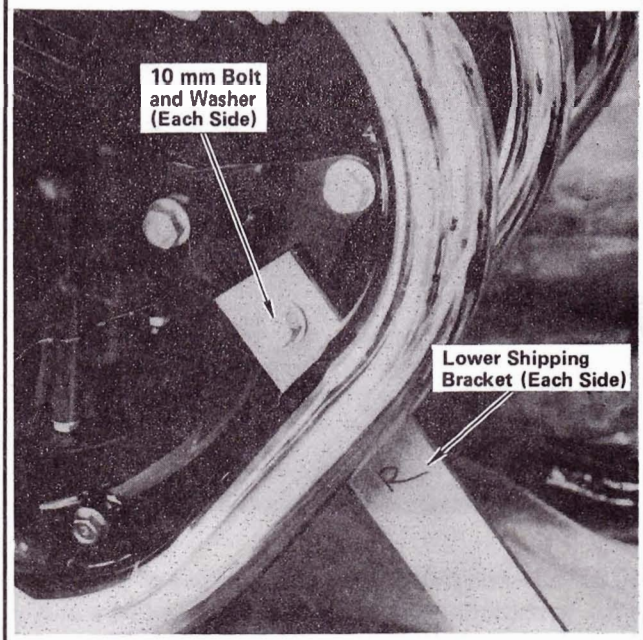
STEP 16—Install master cylinder and holder, with arrow mark on holder pointing up, using two black 6 x 23 mm socket head bolts. Position master cylinder so split of holder and master cylinder is aligned with punch mark on handlebar. Tighten upper bolt to specified torque first, then tighten lower bolt to same torque.

CAUTION: Check that wire harness is not pinched between holder and handlebar.

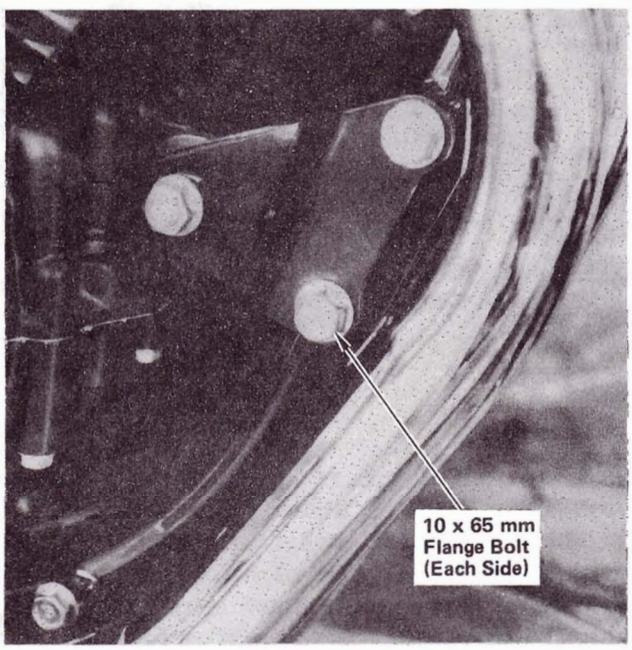
Torque specification:
1.0 kg-m (8 lb-ft)



STEP 17—Remove screws attaching lower shipping bracket to crate base on each side. Discard screws.

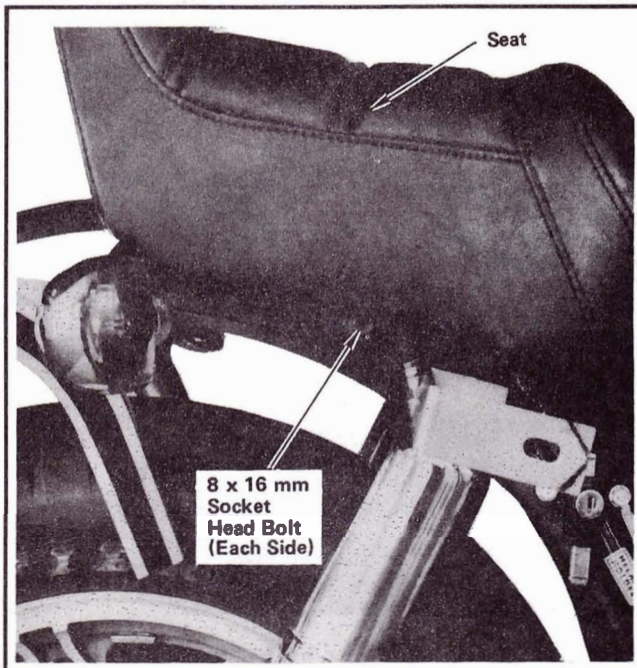


STEP 18—Remove 10 x 65 mm flange bolts and washers attaching lower shipping brackets to front engine mount brackets. Retain bolts for reinstallation. Discard shipping brackets and 10 mm washers.



STEP 19—Reinstall 10 x 65 mm flange bolts removed in previous step. Tighten bolts to specified torque.

Torque specification:
4.0 kg-m (29 lb-ft)



STEP 20—Remove and retain 8 x 16 mm socket head bolt on each side of seat. Remove seat.

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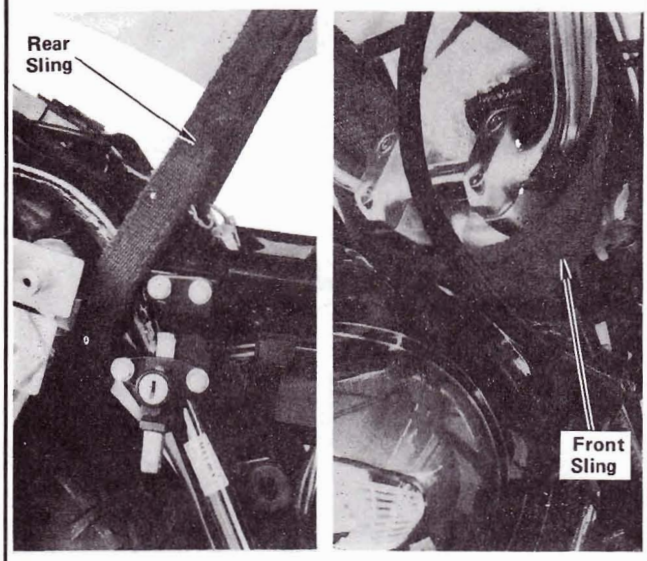
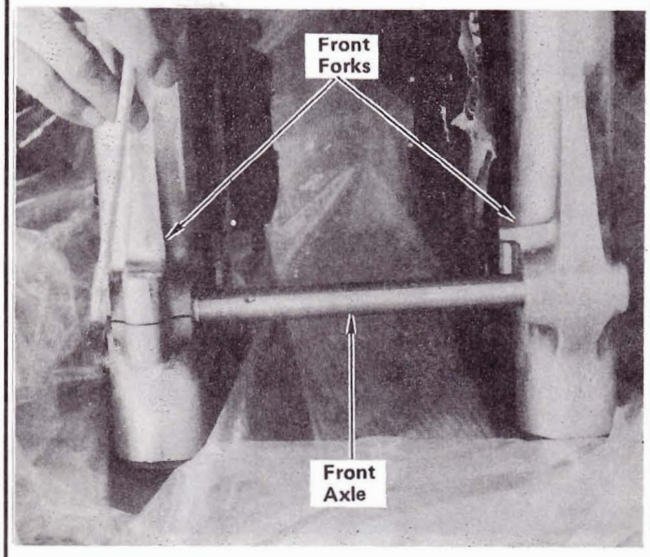
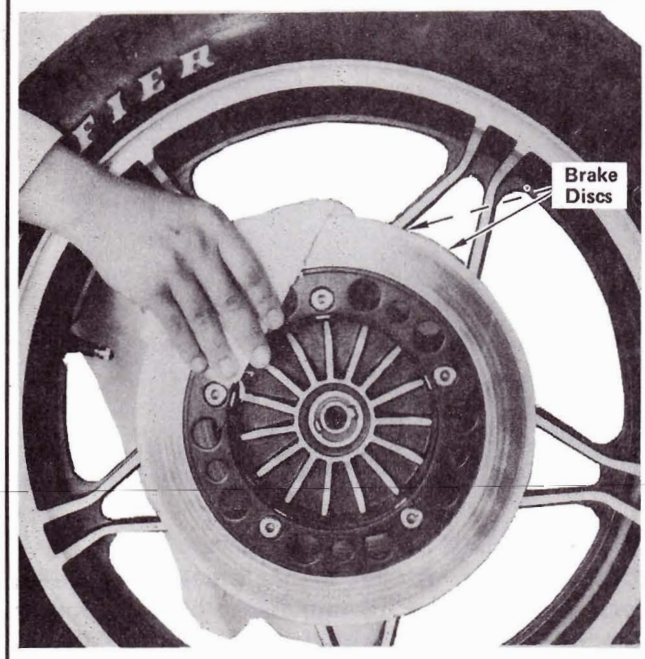


STEP 21—Position sling ropes as shown and lift motorcycle until rear wheel is clear of crate base, using a hoist or other lifting device. Remove remaining protective covering by removing rubber band.

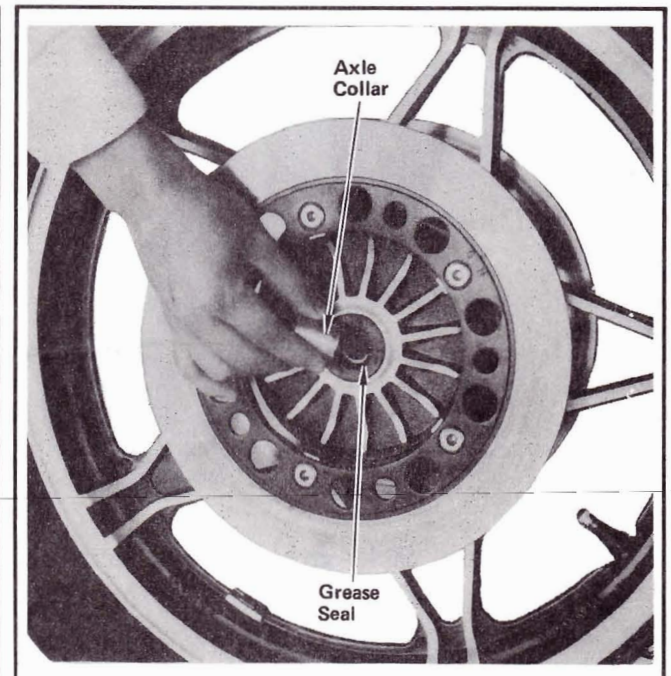
CAUTION: Use care not to damage wires or fuel tank with sling.



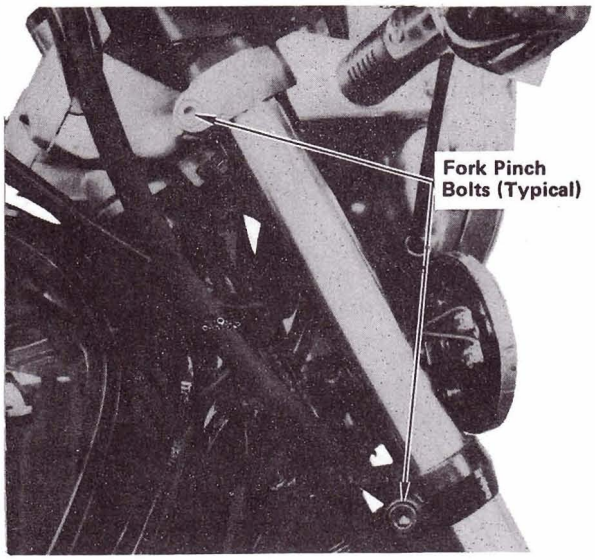
STEP 22—Unscrew and remove front axle from front forks.



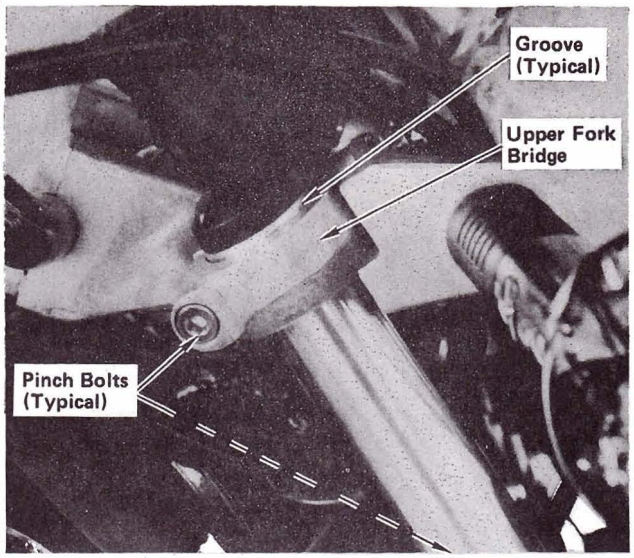
STEP 23—Thoroughly clean both sides of front and rear brake discs using a good quality degreasing agent. Wipe with a clean cloth.



STEP 24—Check that grease seal is clean and full of grease. Insert axle collar into front wheel grease seal.

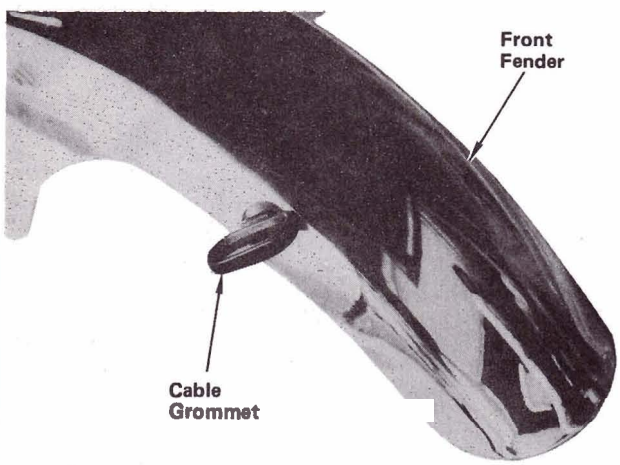


STEP 25—Loosen right and left fork pinch bolts in upper and lower fork bridges.

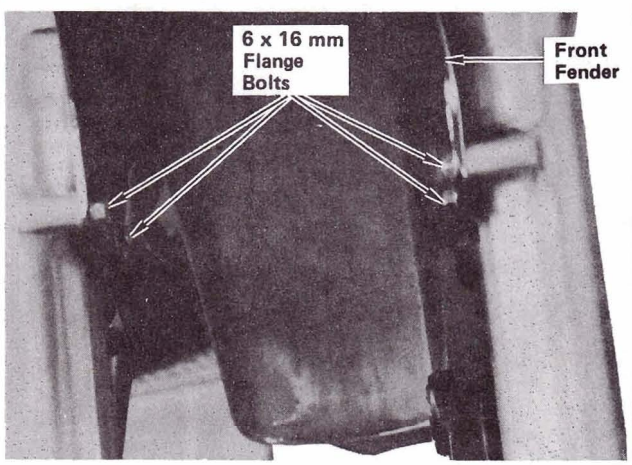


STEP 26—Slide right and left fork tubes down until groove in top of each fork tube is aligned with top of upper fork bridge. Tighten fork pinch bolts to specified torque.

Torque specifications:
Upper pinch bolts: 1.1 kg-m (9 lb-ft)
Lower pinch bolts: 4.4 kg-m (32 lb-ft)



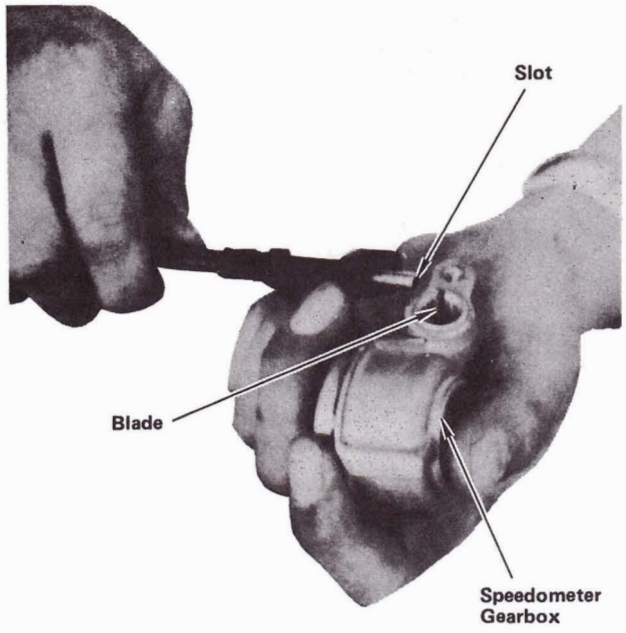
STEP 27—Insert cable grommet into hole in front fender.



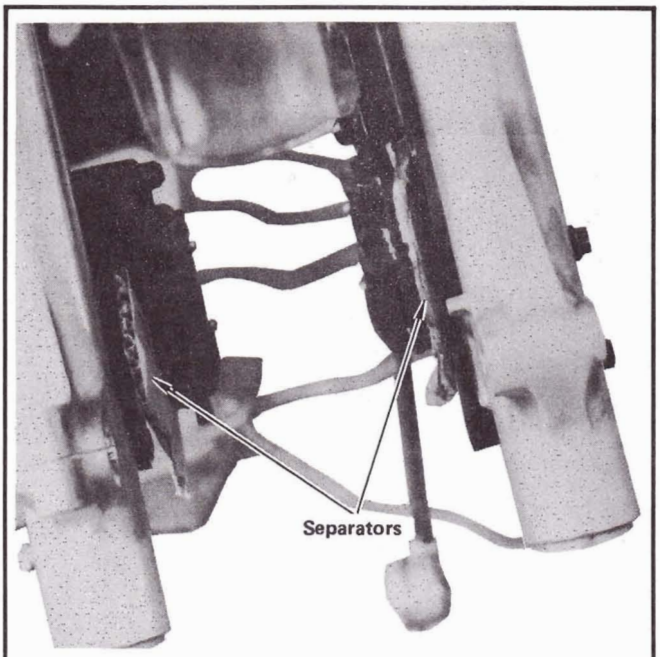
STEP 28—Insert front fender between fork legs from the rear. Attach fender brackets to fork legs using four 6 x 16 mm flange bolts through fender brackets. Tighten bolts to specified torque.

NOTE: Be sure speedometer cable grommet is on left side.

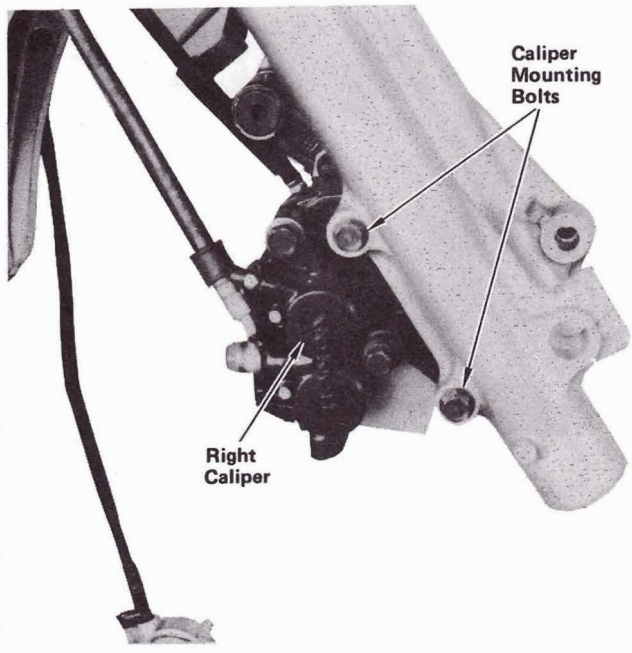
Torque specification:
1.0 kg-m (8 lb-ft)



STEP 29—Route speedometer cable down through cable grommet. Insert end of speedometer cable into speedometer gearbox, aligning slot in cable with blade in gearbox. Secure cable with a 5 x 20 mm screw. Tighten screw securely.

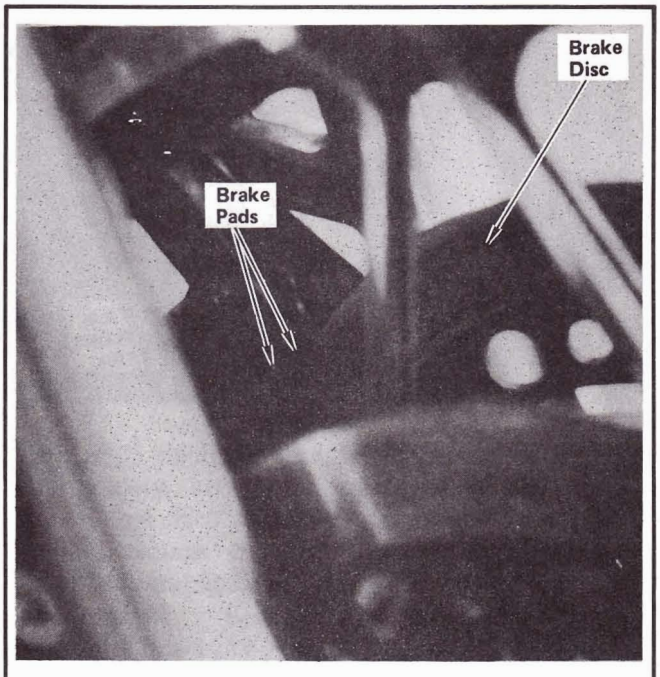


STEP 30—Remove separators from between brake pads.

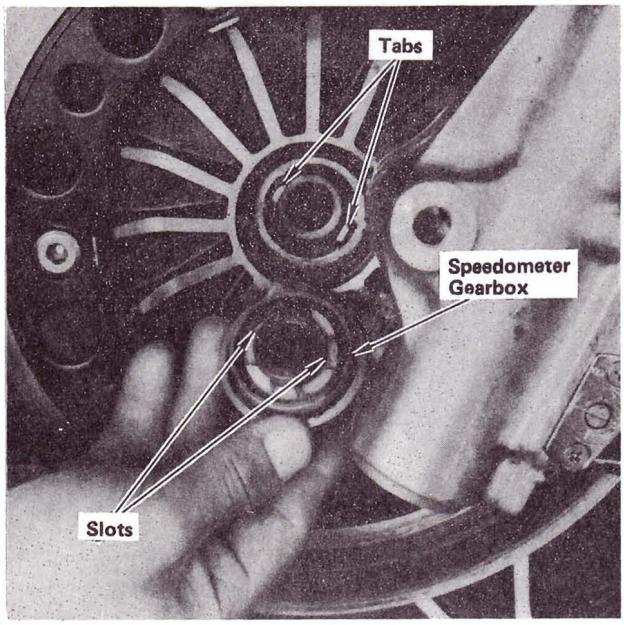


STEP 31—Remove right front brake caliper by removing caliper mounting bolts. Retain bolts for reinstallation.

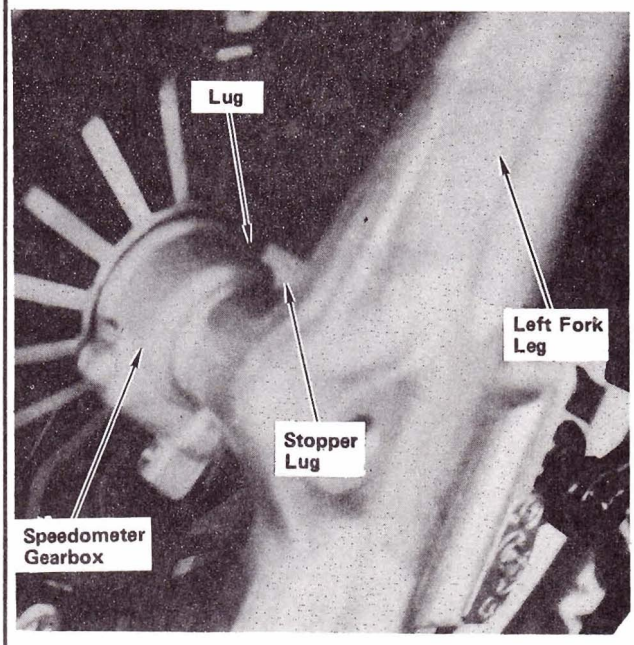
CAUTION: Support caliper so that it does not hang from brake hose. Do not twist brake hose.



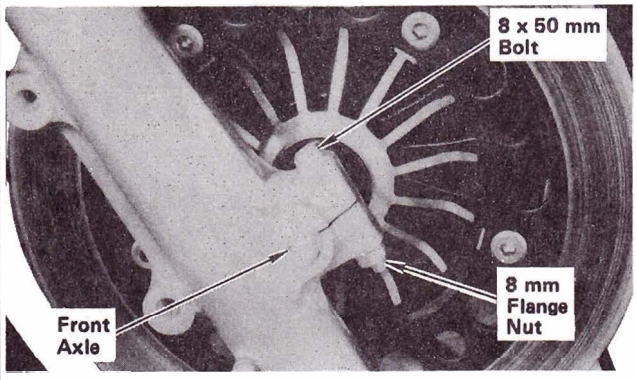
STEP 32—Position front wheel between fork legs with axle collar on right side, while just starting left brake disc between brake pads.



STEP 33—Install speedometer gearbox, making sure slots are aligned with tabs in wheel hub, while working brake disc between brake pads.



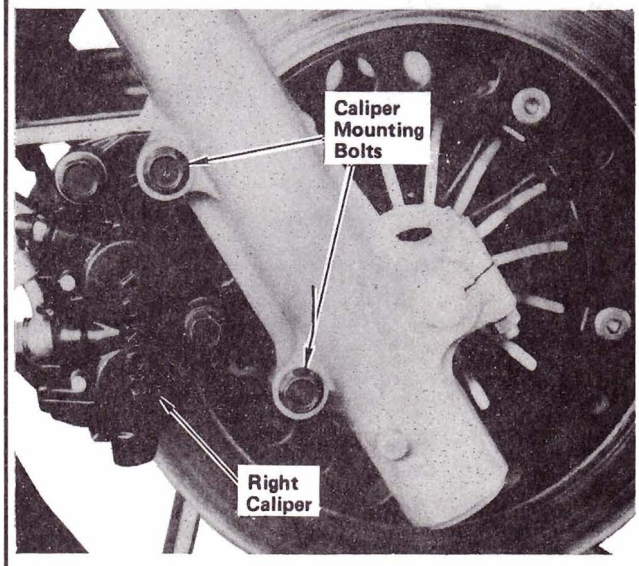
STEP 34—Rotate speedometer gearbox lug up against rear of stopper lug on left fork leg.



STEP 35—Insert front axle through right fork leg, axle collar, wheel hub and speedometer gearbox. Screw axle into left fork leg. Rotate speedometer gearbox lug up against rear of stopper on left fork leg and tighten front axle to specified torque. Install 8 x 50 mm and 8 mm flange nut and tighten specified torque while holding right fork leg against axle collar.

Torque specifications:

Front axle:	**6.0 kg-m (44 lb-ft)**
Axle holder bolt:	**2.0 kg-m (15 lb-ft)**



STEP 36—Reinstall right brake caliper by fitting brake disc between brake pads and using mounting bolts removed in Step 31. Tighten bolts to specified torque.

Torque specification:

3.5 kg-m (26 lb-ft)

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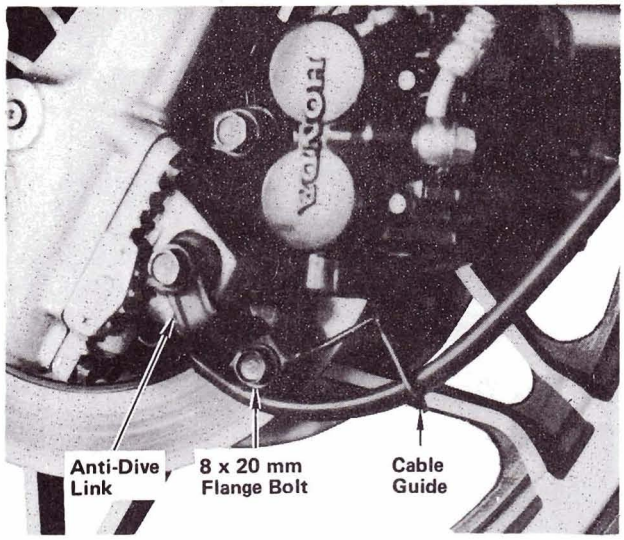
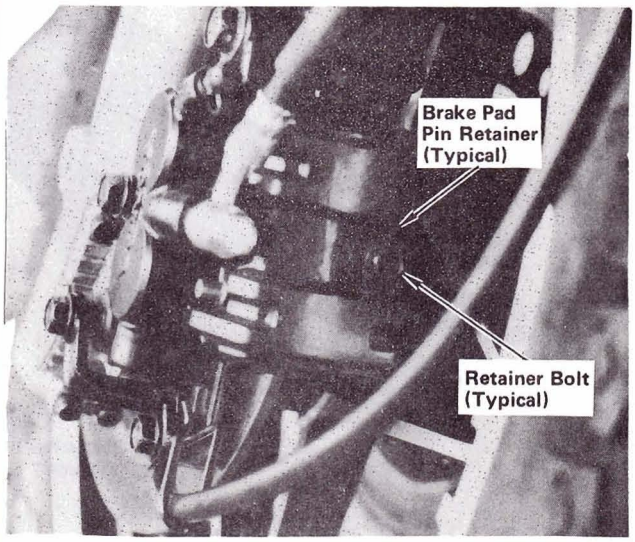
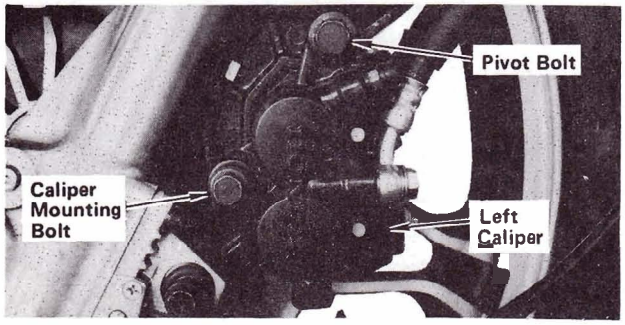


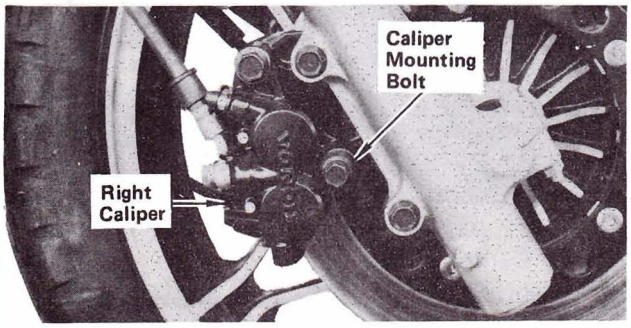
STEP 37—Remove 8 mm caliper bolt indicated. Position speedometer cable guide as shown and reinstall 8 mm bolt through cable guide, anti-dive link, and into brake caliper. Tighten 8 mm caliper bolt to specified torque. Insert speedometer cable into cable guide.

Torque specification:
2.2 kg-m (16 lb-ft)



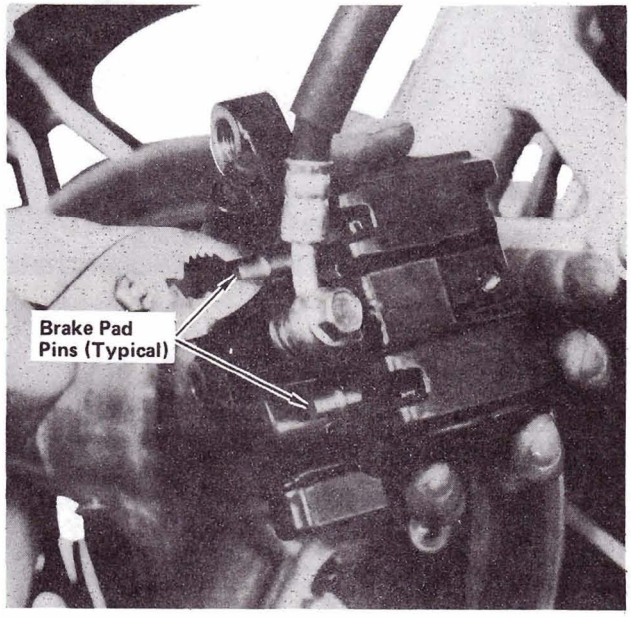
STEP 38—Remove brake pad pin retainers from front and rear brake calipers by removing retainer bolt from each caliper.



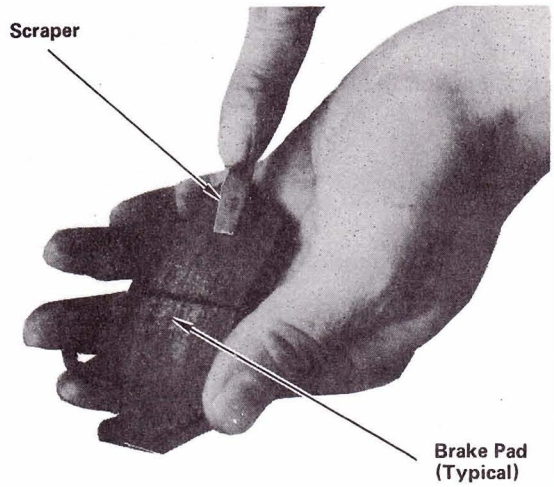


STEP 39—Remove right and left brake calipers by removing indicated bolts.

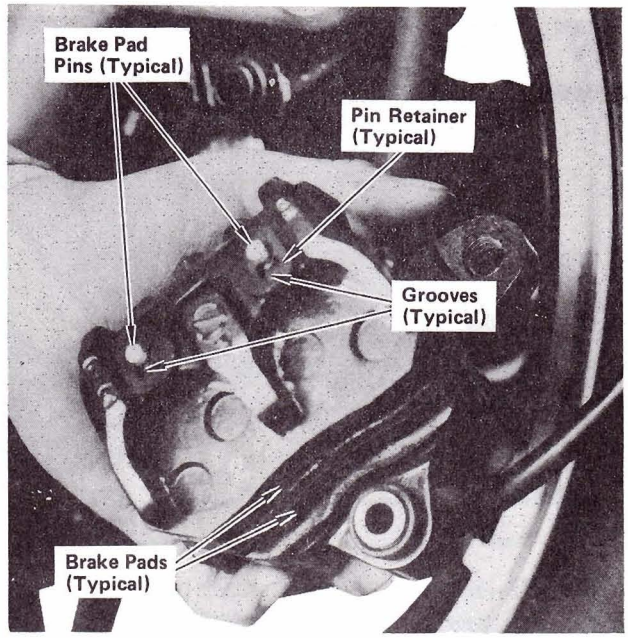
NOTE: Only left caliper requires removal of pivot bolt.



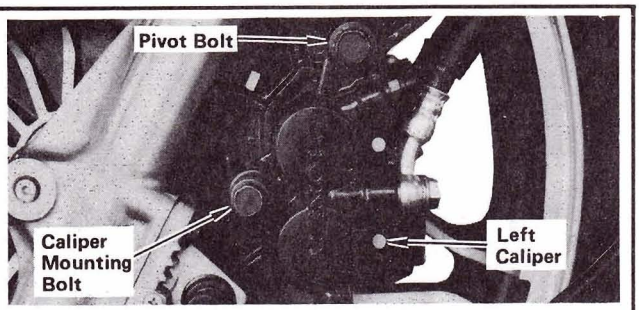
STEP 40—Remove brake pad pins and remove brake pads from calipers.

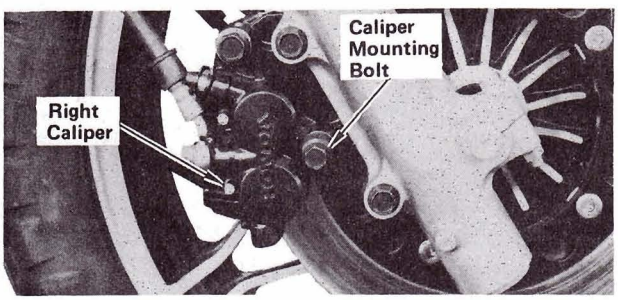


STEP 41—Scrape off all preservative and residue from each brake pad.



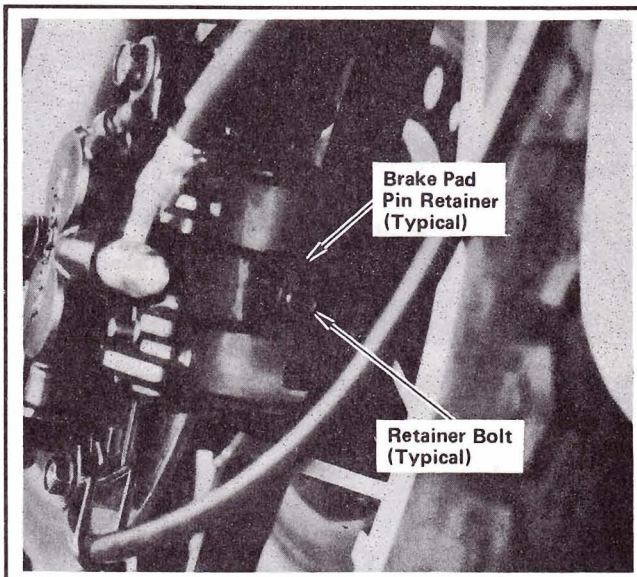
STEP 42—In each caliper, reinstall brake pads, brake pad pins and pin retainer. Be sure pins are pushed in so groove in each pin is even with surface of caliper.





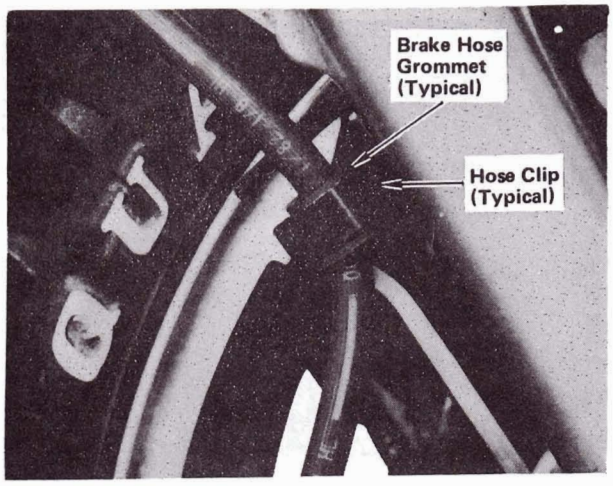
STEP 43—Reinstall brake calipers using bolts removed in Step 39. Tighten bolts to specified torque.

Torque specifications:
Mounting bolts: 2.2 kg-m (16 lb-ft)
Left pivot bolt: 3.5 kg-m (26 lb-ft)



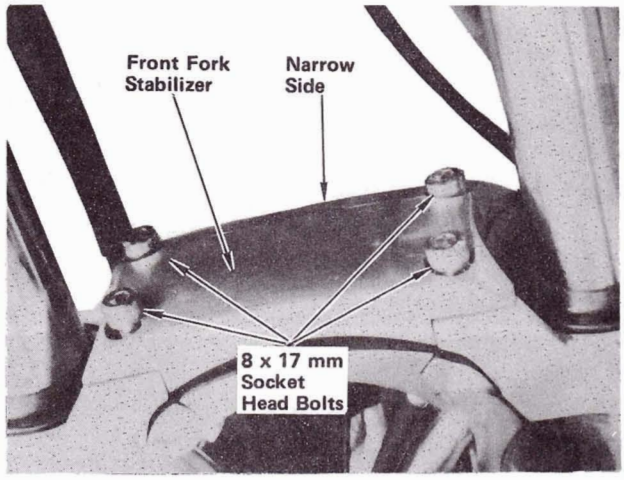
STEP 44—Reinstall brake pad pin retainers and retainer bolts. Tighten bolts to specified torque.

Torque specification:
1.0 kg-m (8 lb-ft)



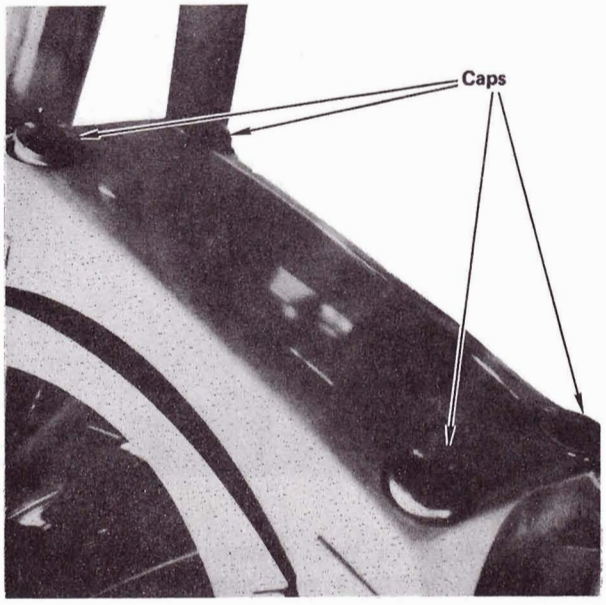
STEP 45—Position each front brake hose grommet on brake hose by brake hose clip. Press each grommet into hose clip on fender bracket as shown. Squeeze clips just enough to hold grommets. Make sure there is clearance between clips and front wheel.

WARNING Do not overtighten hose clips, otherwise brake hoses may be damaged.

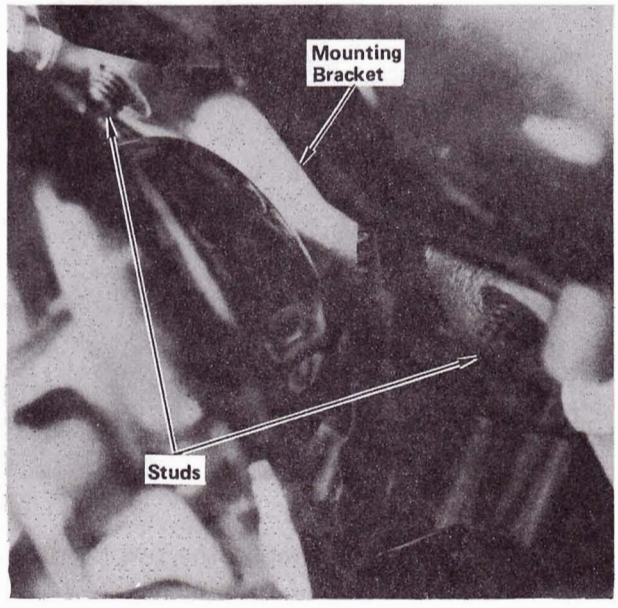


STEP 46—Position front fork stabilizer between fork legs with narrow side towards the rear. Install stabilizer using four 8 x 17 mm socket head bolts. Tighten bolts to specified torque.

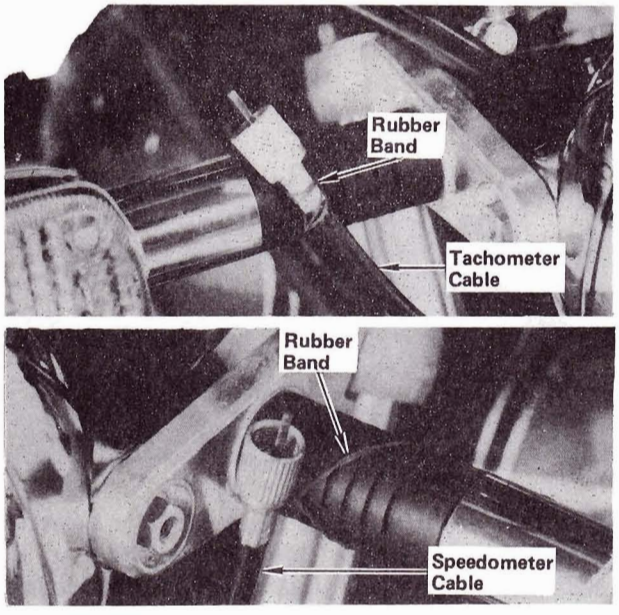
Torque specification:
2.3 kg-m (17 lb-ft)



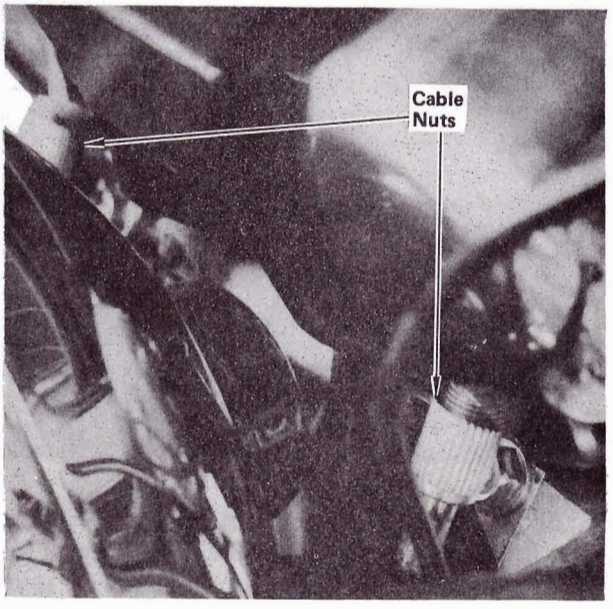
STEP 47—Install four caps in recesses of socket head bolts.



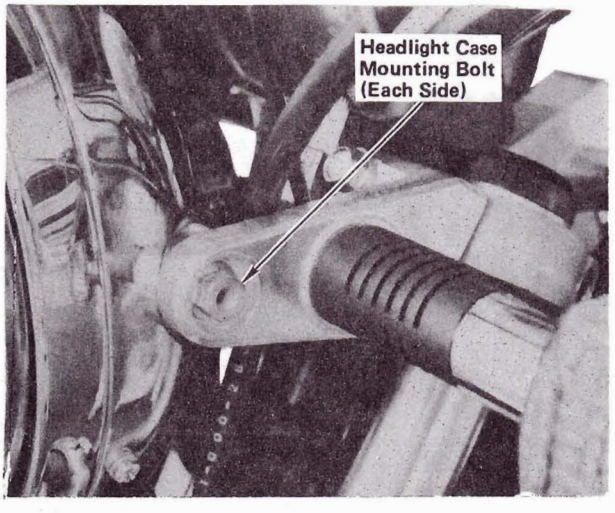
STEP 48—Remove protective wrapping from instruments. Insert studs on instruments down through holes in mounting bracket as shown.



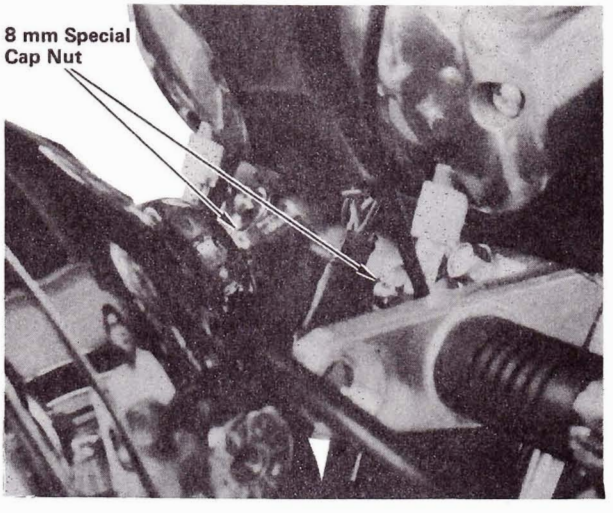
STEP 49—Release tachometer and speedometer cables from front turn signal mounts by removing rubber bands.



STEP 50—Connect speedometer and tachometer cables to their respective instruments and tighten cable nuts with pliers so they cannot be loosened with fingers.



STEP 51—Remove and retain the two headlight case mounting bolts.



STEP 52—Place a pad between headlight case and horns. Carefully pull headlight case down and install an 8 mm special cap nut on each instrument panel stud. Tighten cap nuts to specified torque.

Torque specification:
2.1 kg-m (16 lb-ft)

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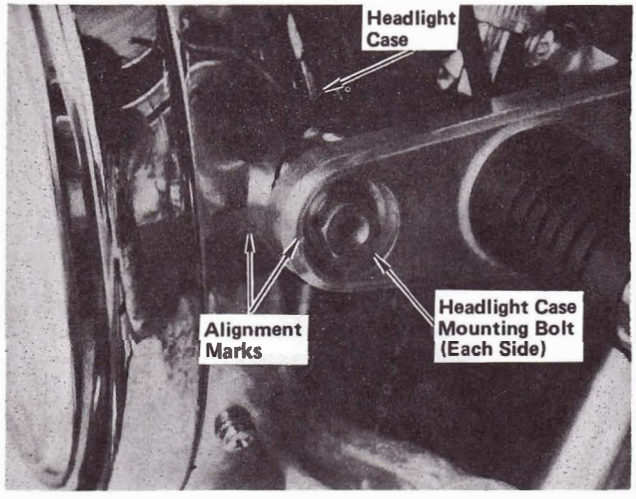
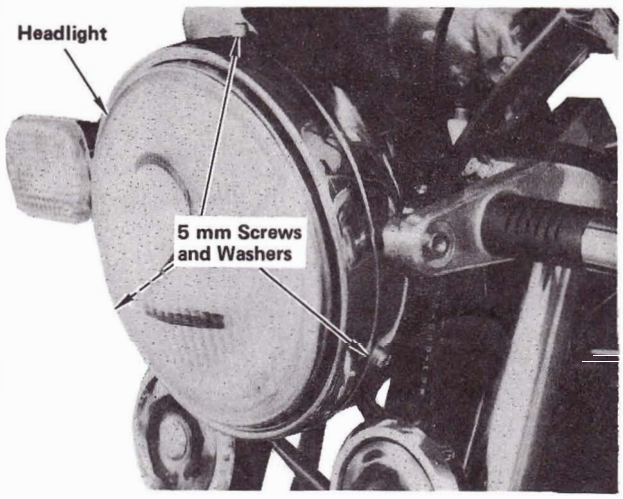
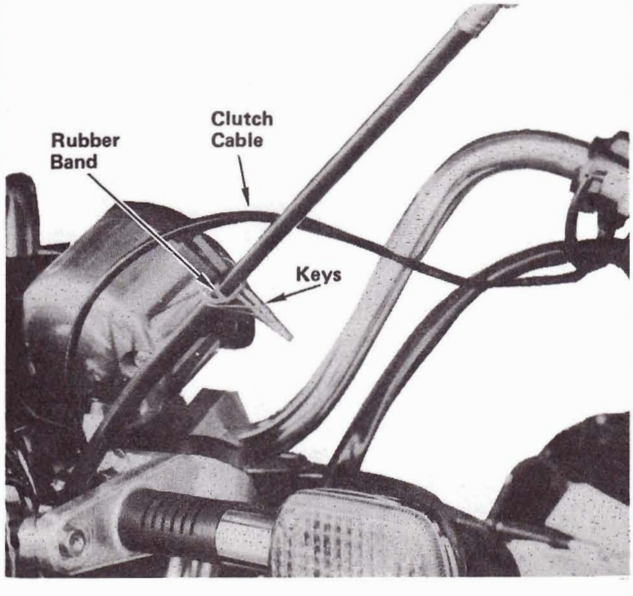


STEP 53—Reinstall headlight case using bolts removed in Step 51. Align marks on case with marks on brackets and tighten bolts to specified torque. Be sure clutch cable is routed inside headlight bracket.

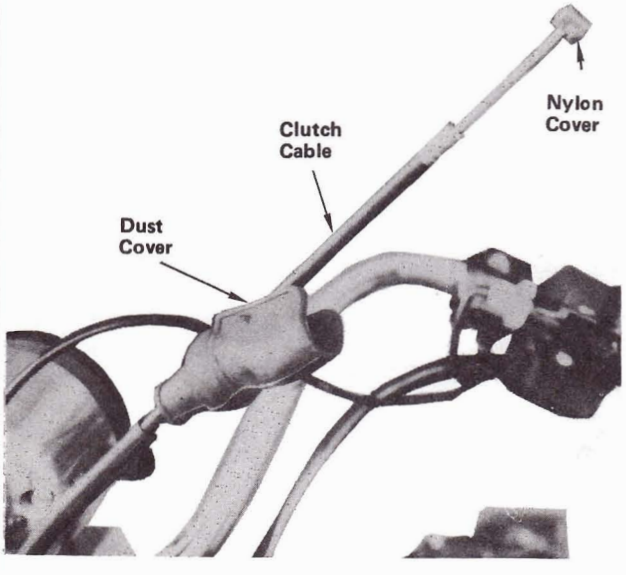
Torque specification:
3.5 kg-m (26 lb-ft)



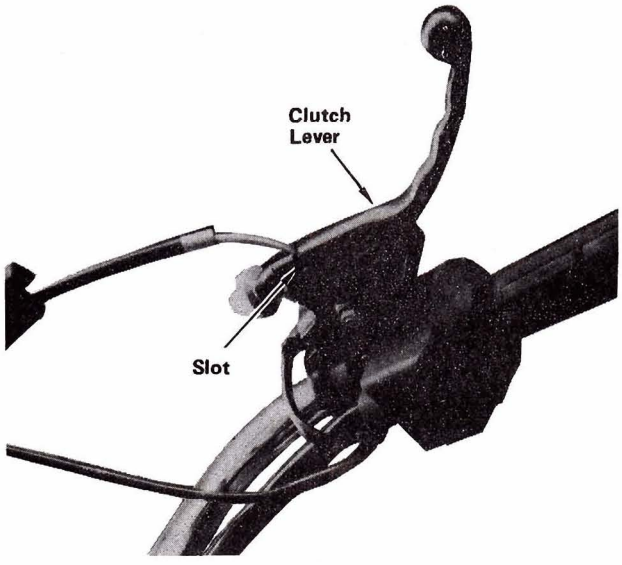
STEP 54—Remove headlight by removing three 5 mm screws and washers from headlight case. Check that all connectors and connections are connected correctly and are tight. Reinstall headlight using screws and washers removed. Tighten screws securely.



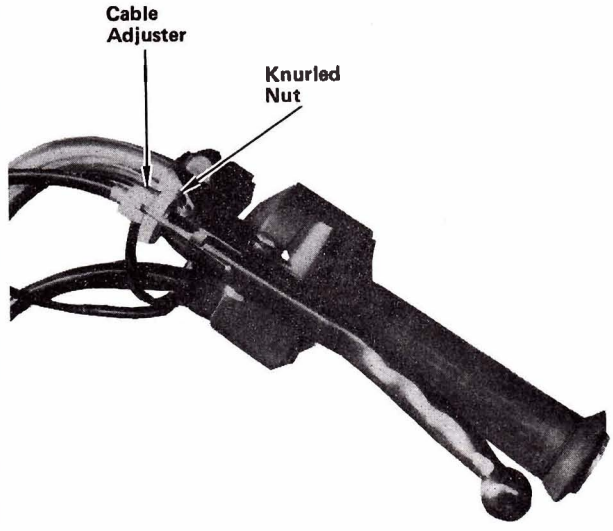
STEP 55—Remove ignition keys from clutch cable by removing rubber band. Insert key in ignition switch.



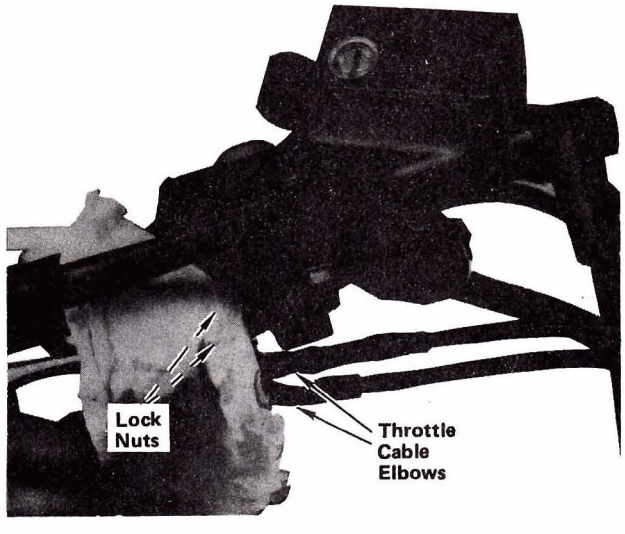
STEP 56—Slip dust cover over clutch cable as shown and check that nylon cover is over end of clutch cable.



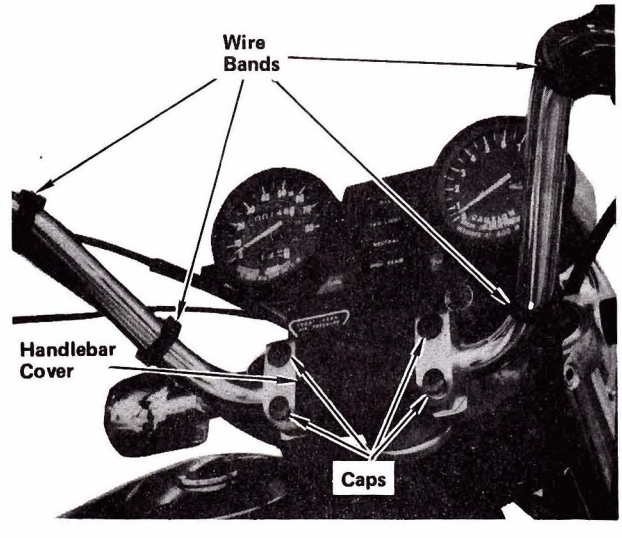
STEP 57—Insert end of clutch cable into slot in clutch lever.



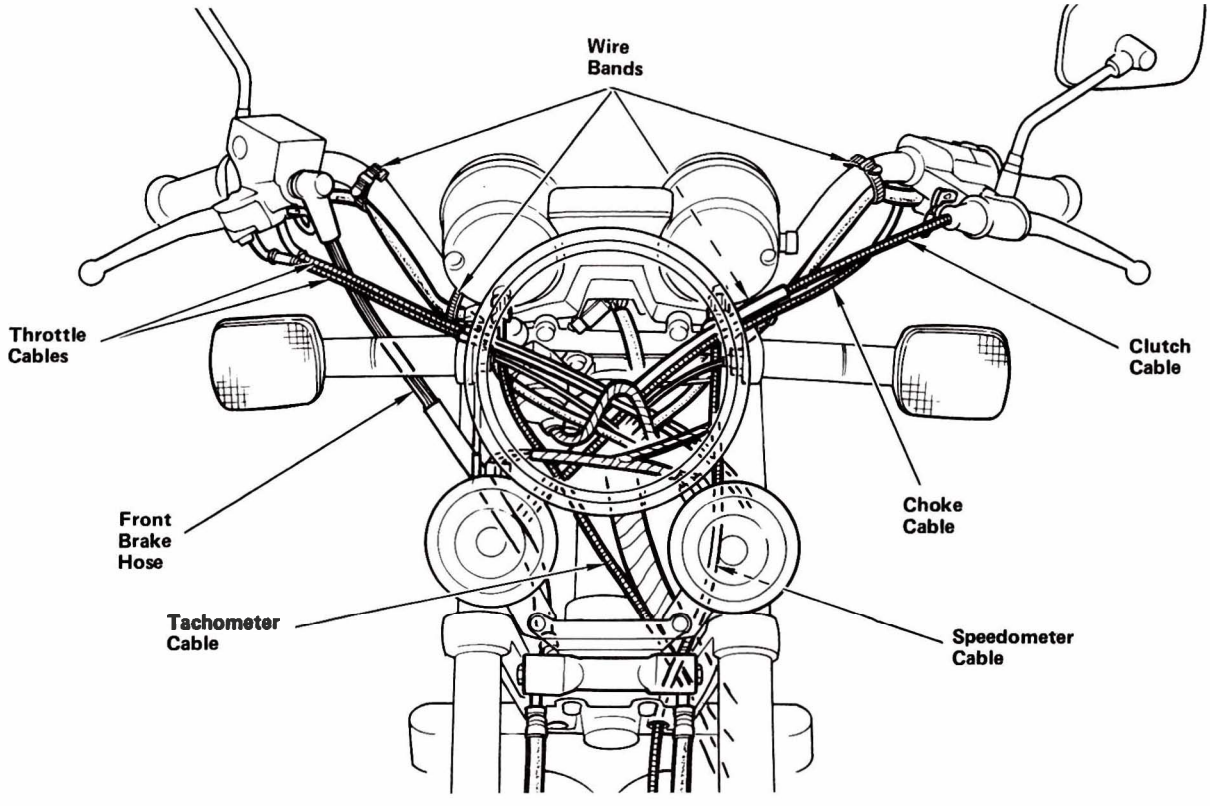
STEP 58—Pull clutch cable back through slots in knurled nut and cable adjuster. Adjust clutch as described in Step 93. Stagger slots in cable adjuster and knurled nut. Install dust cover after adjustment.

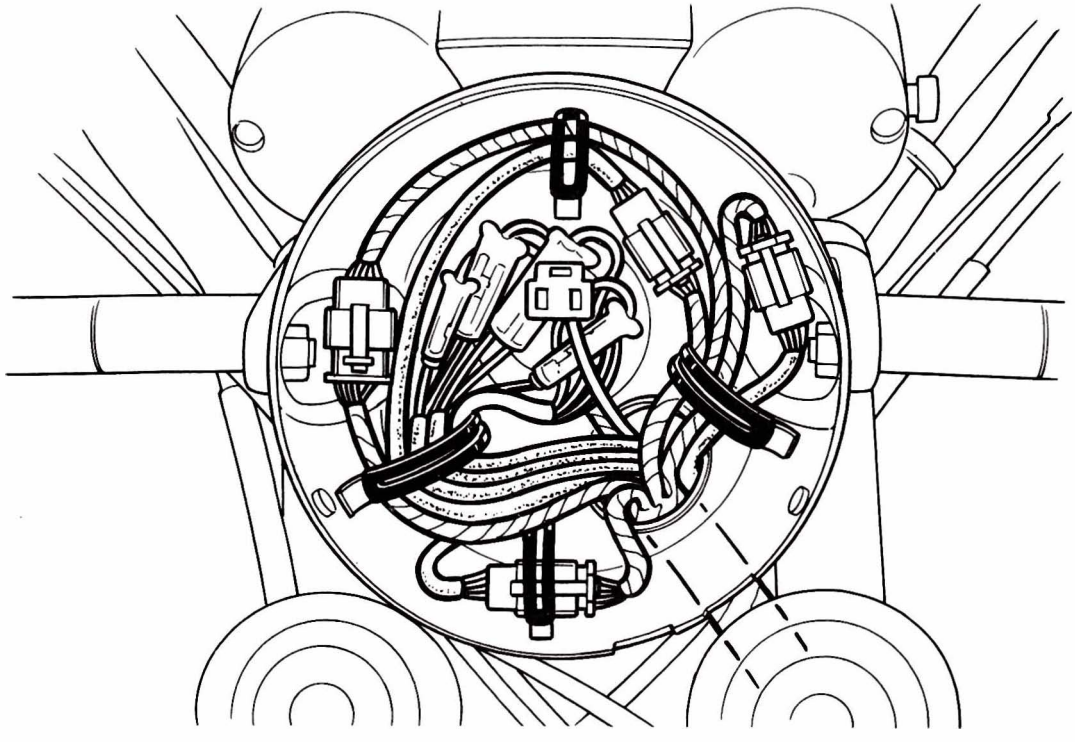


STEP 59—Position throttle cable elbows as shown and tighten lock nuts with pliers using a cloth to protect lock nuts.

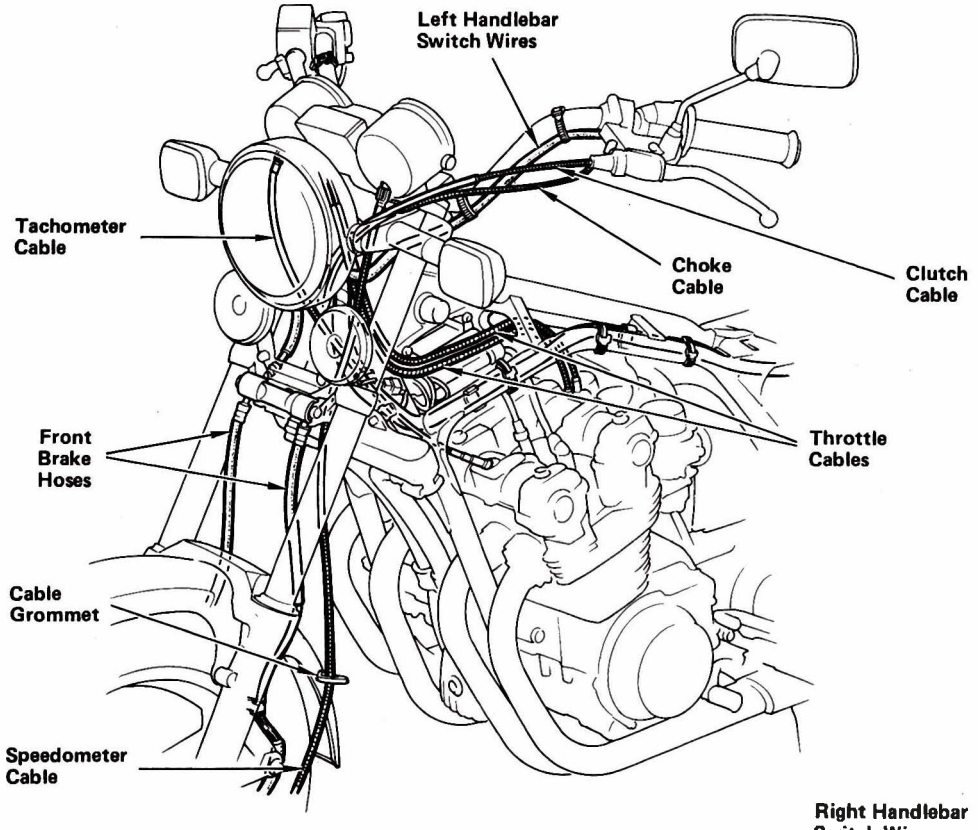


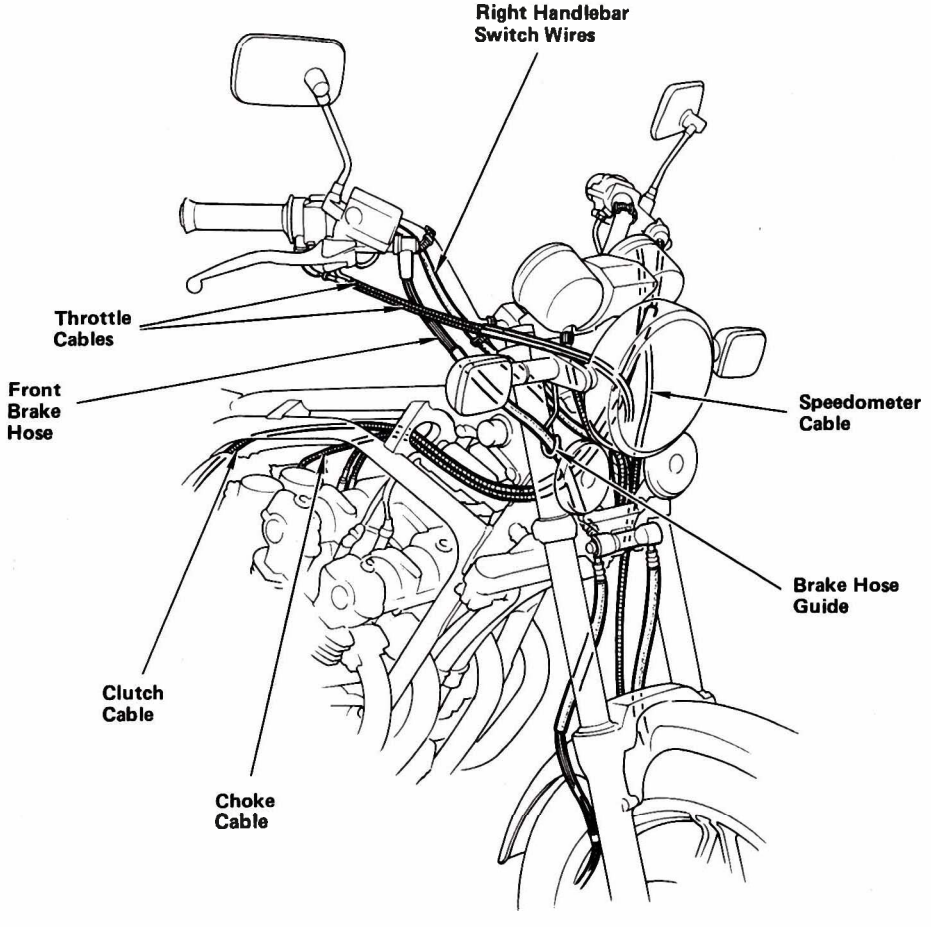
STEP 60—Install four caps in socket bolt recesses. Strap right and left handlebar switch wires to handlebar using four wire bands positioned where shown. Install handlebar cover on handlebar between upper handlebar holders as shown.





STEP 61—Check for correct routing of wire harness, all cables and front brake hoses. Make sure all wires in headlight case are connected correctly.





STEP 61—(Continued)

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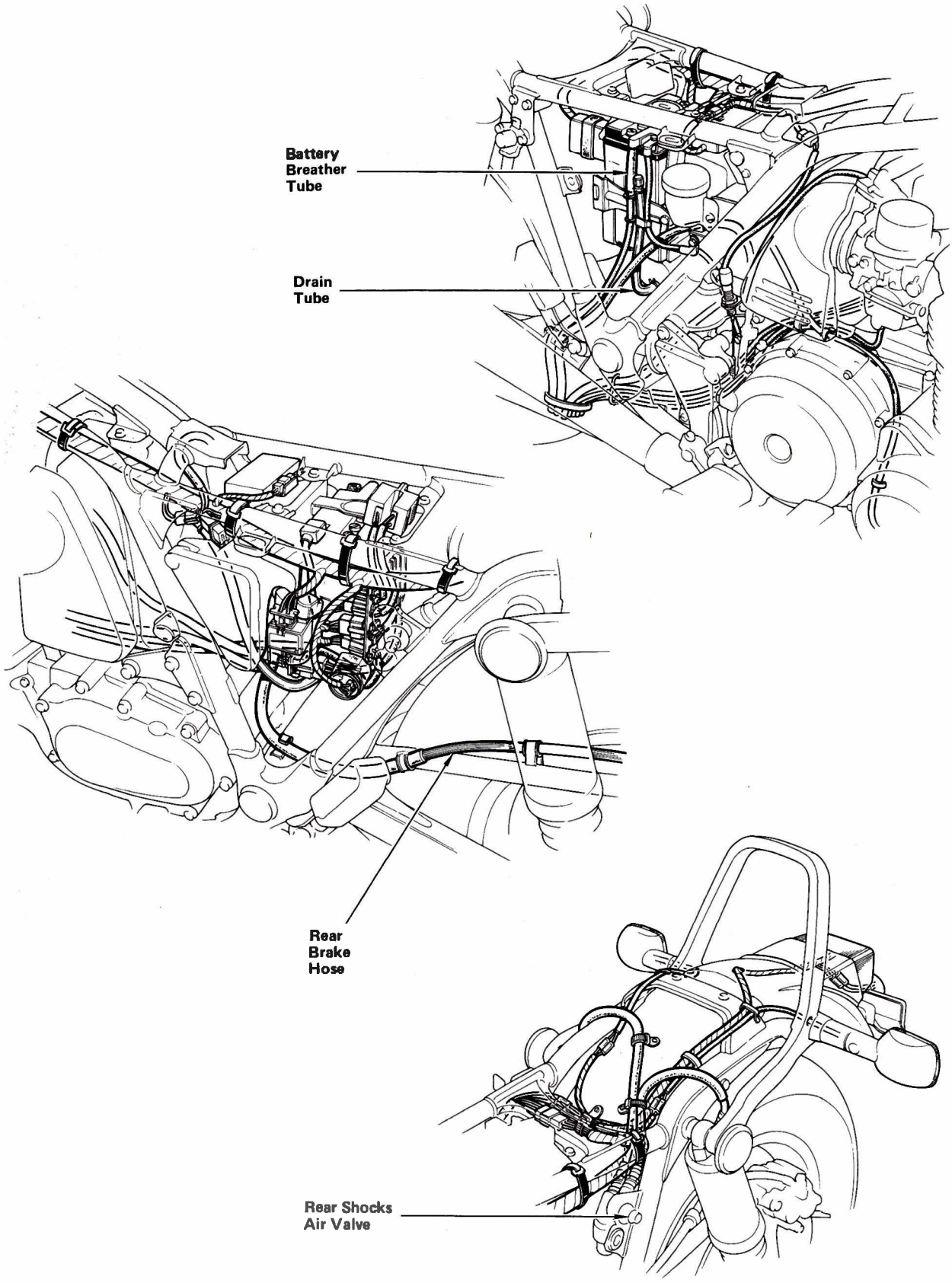
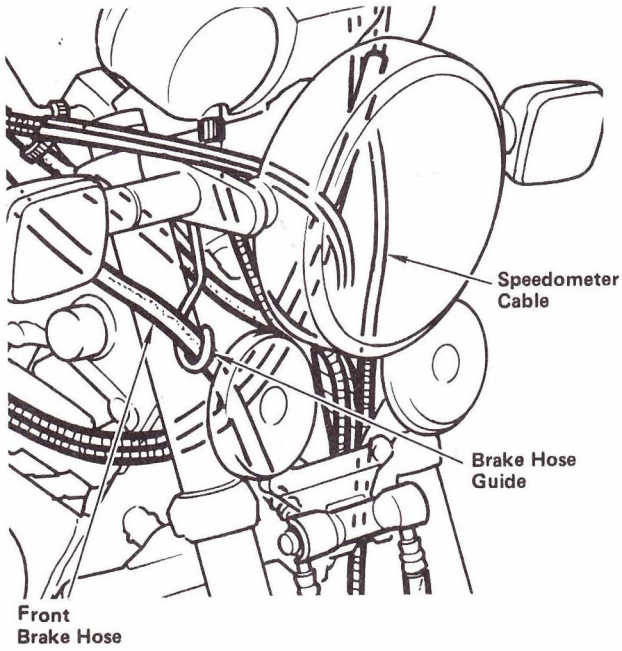
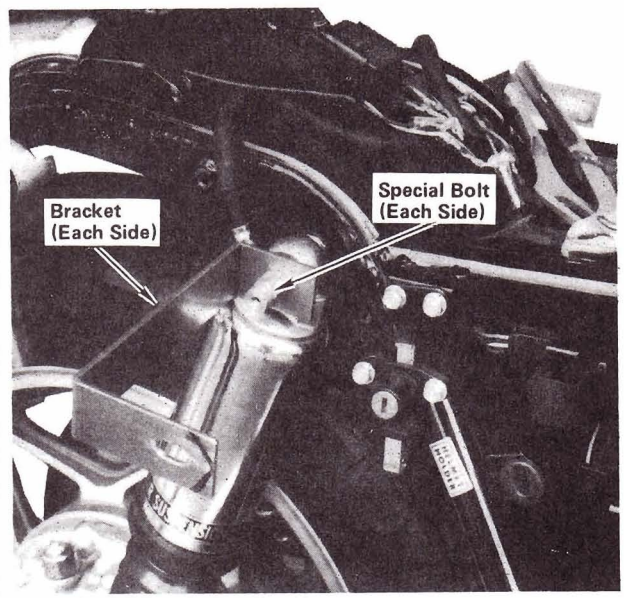


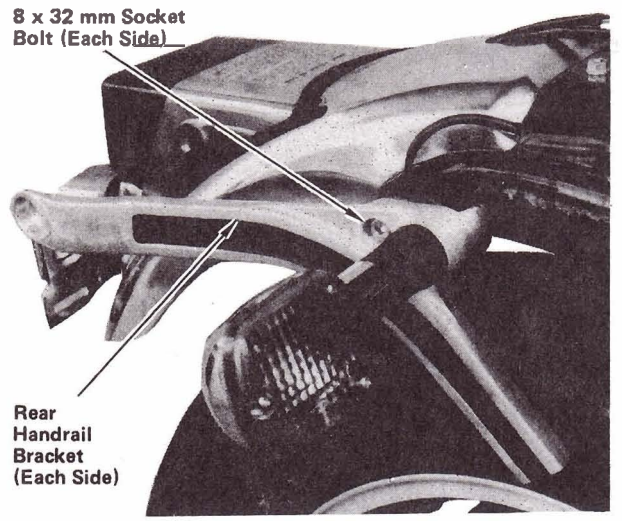
STEP 61—(Continued)



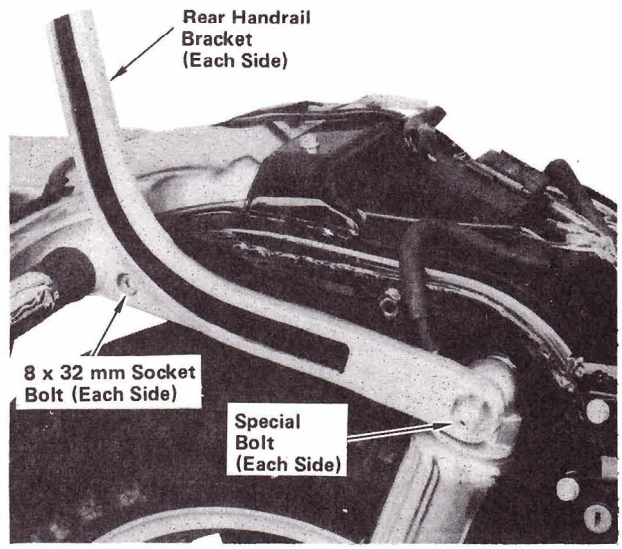
STEP 62—Route front brake hose through brake hose guide and position guide where shown.



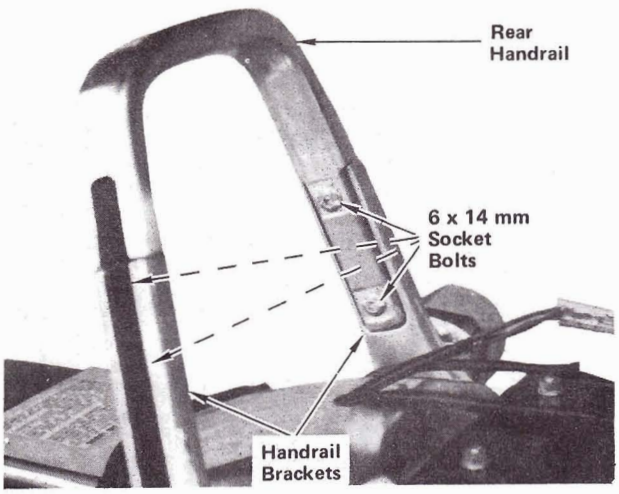
STEP 63—Remove and retain special bolts attaching rear shipping bracket to upper shock mount on each side. Discard brackets.



STEP 64—Remove right and left rear handrail brackets by removing an 8 x 32 mm socket bolt from each. Retain bolts for reinstallation.



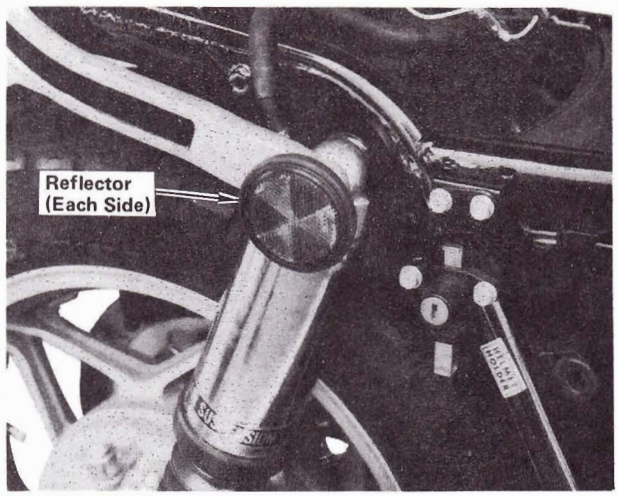
STEP 65—Install right and left rear handrail brackets as shown, using an 8 x 32 mm socket bolt removed in Step 64, and the special bolt removed in Step 63 for each. Do not tighten bolts at this time.



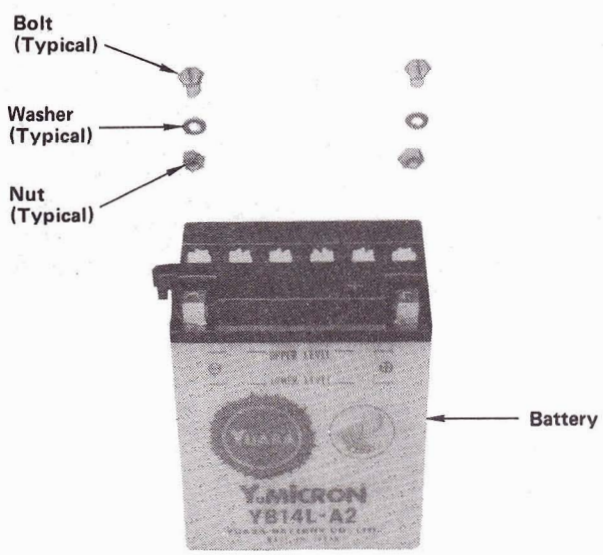
STEP 66—Slide rear handrail down into handrail brackets as shown and loosely install using four 6 x 14 mm socket bolts. Tighten rear handrail and handrail bracket bolts to specified torque.

Torque specifications:

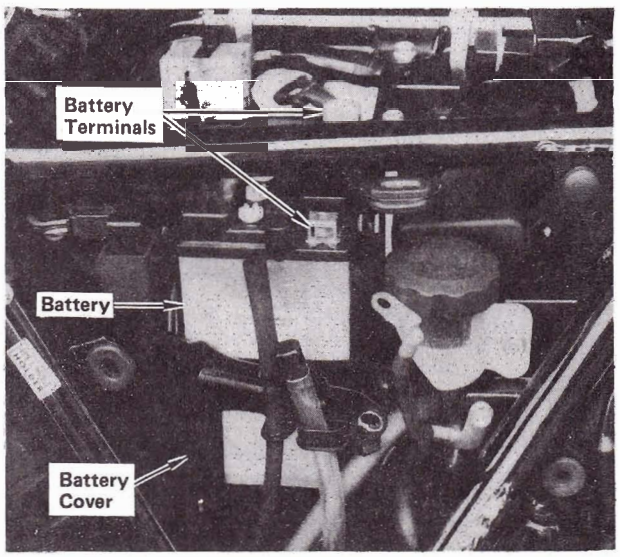
8 x 32 mm bolts:	2.1 kg-m (16 lb-ft)
6 x 14 mm bolts:	1.1 kg-m (8 lb-ft)
10 mm special bolts:	4.0 kg-m (29 lb-ft)



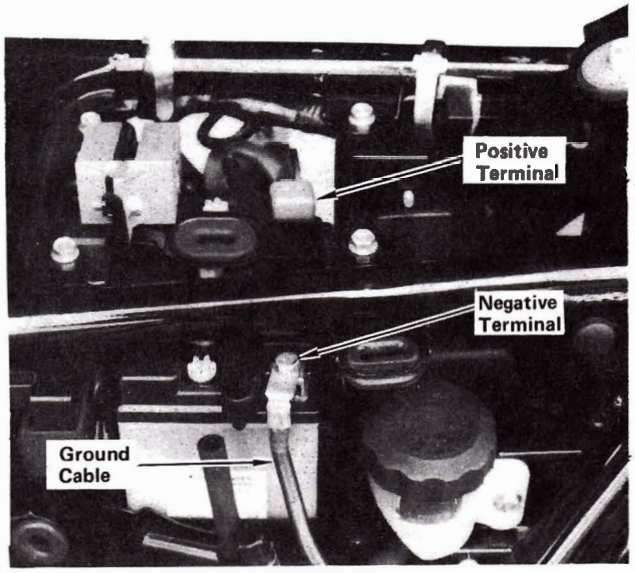
STEP 67—Screw reflectors into 10 mm special bolts as shown. Tighten reflectors securely.



STEP 68—Install a battery bolt with washer and nut on each terminal. Service battery as described in shop manual or battery preparation booklet packed with battery. Battery must be out of battery compartment. Remove and retain 6 mm bolt holding battery retainer. Open retainer.

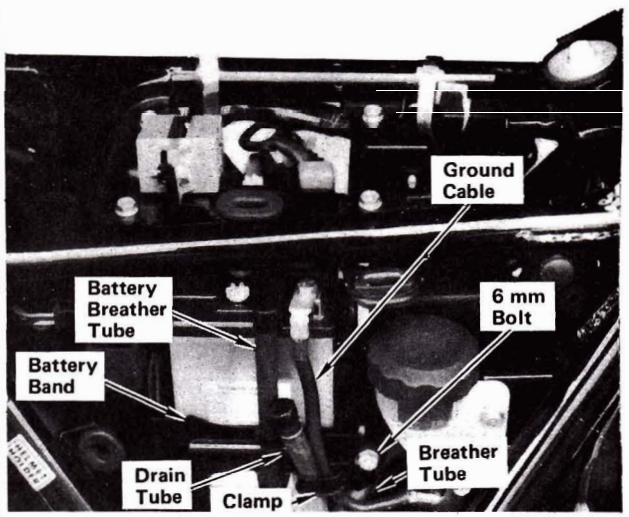


STEP 69—Put battery cover on battery and install battery in battery compartment with terminals facing forward.

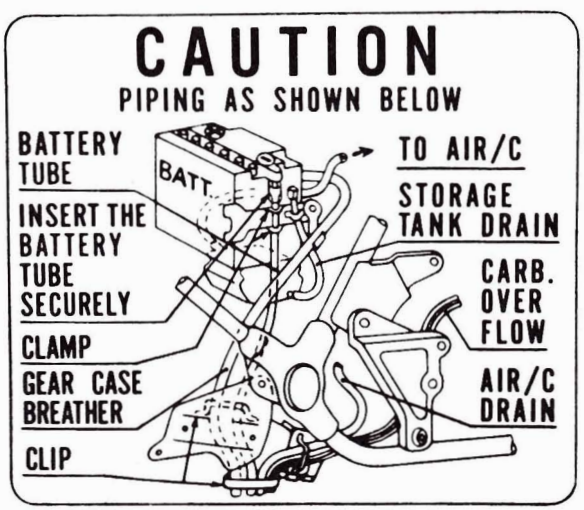


STEP 70—Connect positive cable (cable with cover attached) to battery positive terminal first, then connect ground cable to battery negative terminal. Tighten bolts securely.

CAUTION: Make sure positive battery cable is not forced against any metal parts.

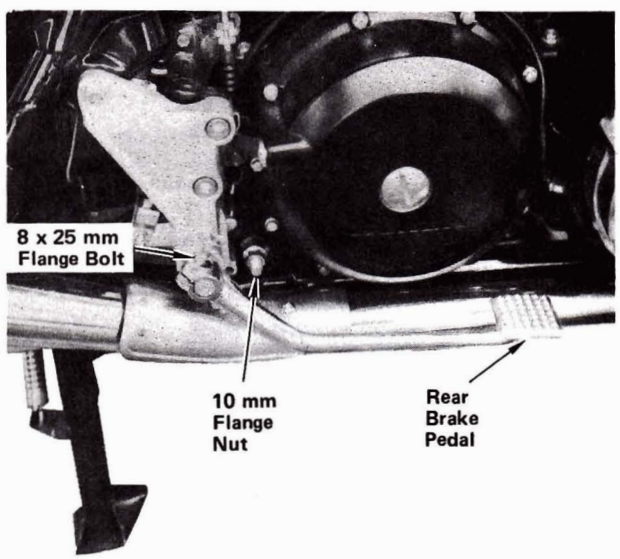


STEP 71—Reinstall battery retainer using bolt removed in Step 68. Insert ground cable and crankcase breather tube into clamp as shown. Squeeze clamp to retain cable and tube. Connect breather tube to battery breather outlet.



STEP 72—Check that battery breather tube is routed as shown on battery caution label located on the frame.

CAUTION: Check that battery breather tube is not kinked, twisted or pinched; otherwise battery may be damaged.



STEP 73—Remove rear brake pedal by removing 8 x 25 mm flange bolt. Retain bolt for reinstallation. Remove and retain 10 mm flange nut from engine mount bolt.

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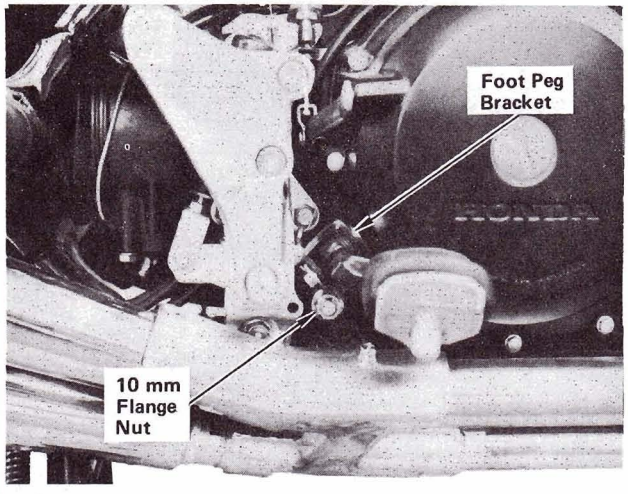
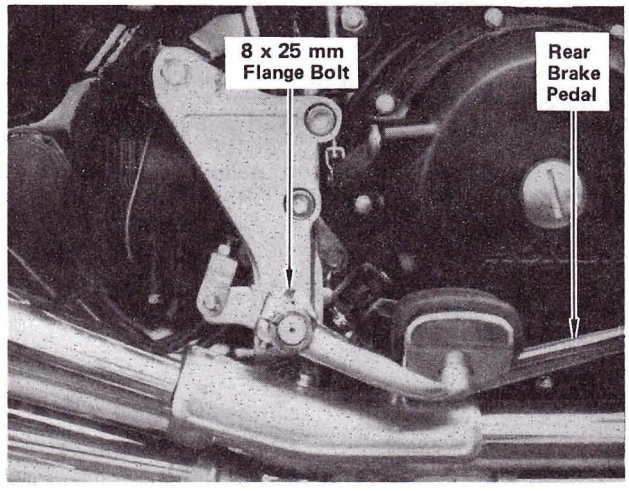


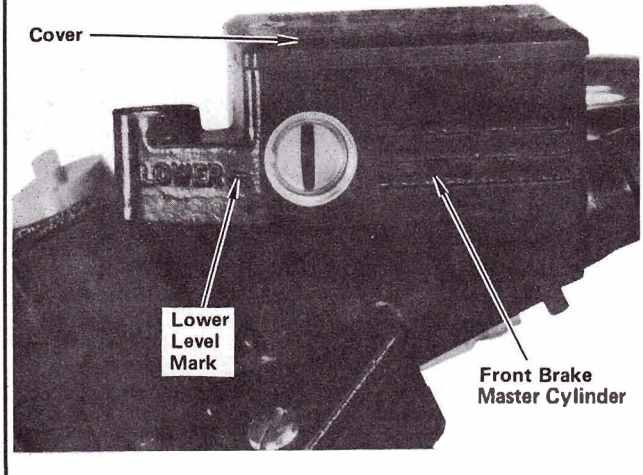
STEP 74—Install right foot peg bracket on 10 mm engine mount bolt as shown by aligning hole in bracket with pin on frame. Install 10 mm flange nut and tighten to specified torque.

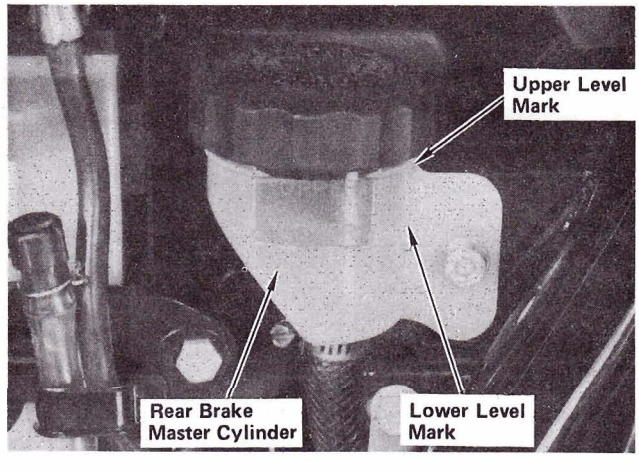
Torque specification:
4.0 kg-m (29 lb-ft)



STEP 75—Reinstall rear brake pedal on pedal shaft so top of pedal is 5—10 mm (3/16—3/8 in.) below upper surface of foot peg rubber. Secure pedal using 8 x 25 mm flange bolt removed in Step 73. Tighten bolt to specified torque.

Torque specification:
2.1 kg-m (16 lb-ft)



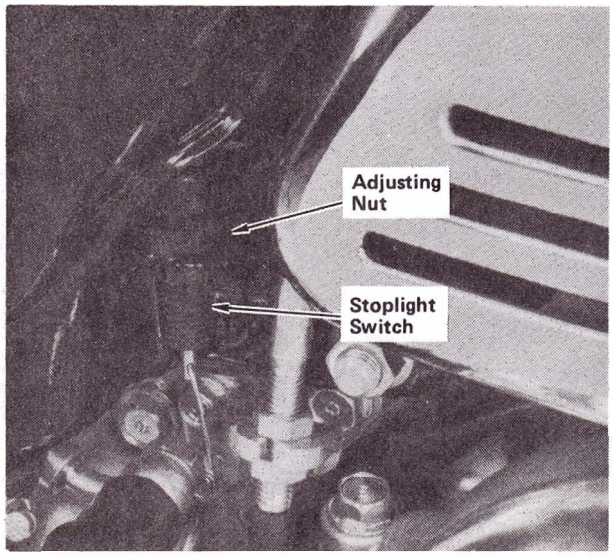


STEP 76—Check that brake fluid level is even with upper level mark on front and rear brake fluid reservoirs. Turn handlebars so reservoir is level. If necessary, remove cover, cap, and diaphragm. Add DOT 3 brake fluid from a sealed container. Reinstall diaphragm and cover and cap. Tighten screws (front) and cap (rear) securely. Operate brake lever and brake pedal. If free play is excessive, and reservoir is filled to correct level, air is in the system. Bleed brake system as described in shop manual.

WARNING *Brake fluid can cause irritation. Avoid contact with skin or eyes.*

CAUTION: Use only DOT 3 brake fluid from a sealed container. Handle brake fluid with care as it can damage paint and instrument lenses.

NOTE: The hydraulic disc type brake requires no free play adjustments.

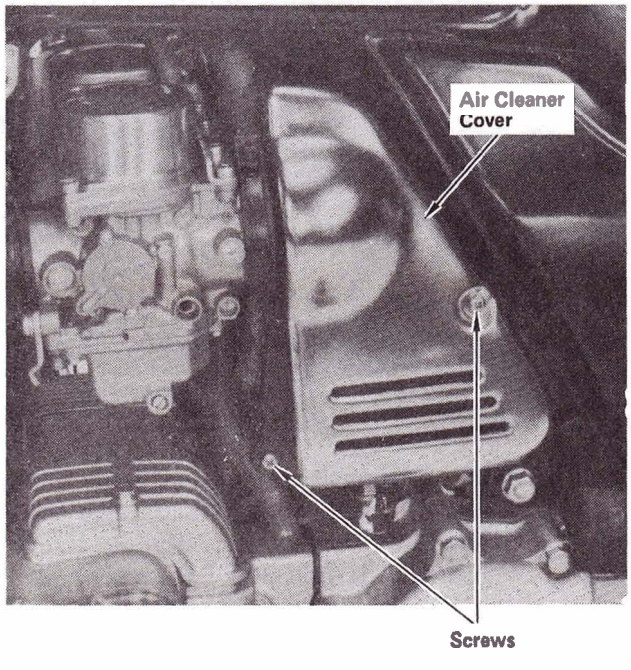


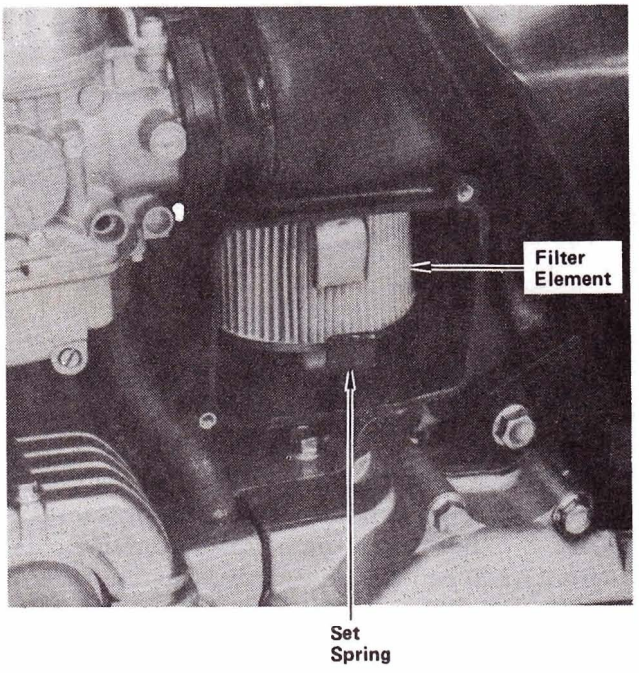
STEP 77—Turn ignition switch ON. Adjust rear stoplight switch so stoplight comes on when brake pedal is pressed and brake begins to engage. To adjust, turn adjusting nut as required.

CAUTION: Do not turn switch body.

STEP 78—Check the pressure.

	Up to 200 lb. load	200 lb. load to maximum load capacity
Front:	32 psi	32 psi
Rear:	32 psi	40 psi





STEP 79—Remove two screws and air cleaner cover. Pull out set spring and element. Check condition of element and clean, as described in owner's manual or shop manual. Install element, set spring, and cover.

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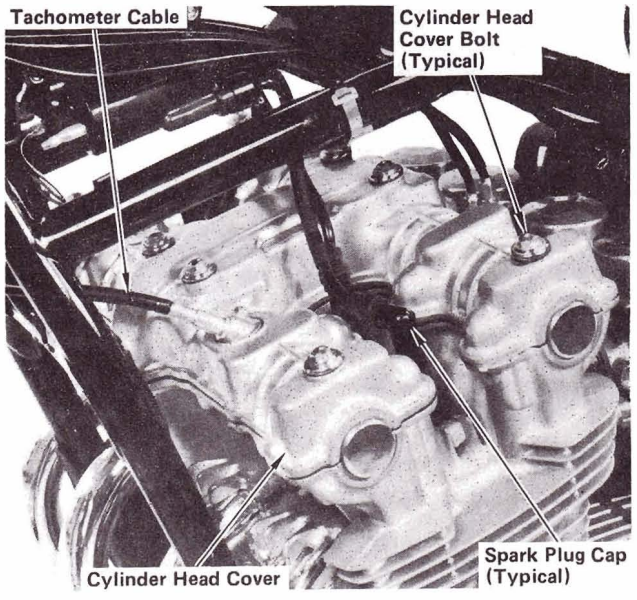
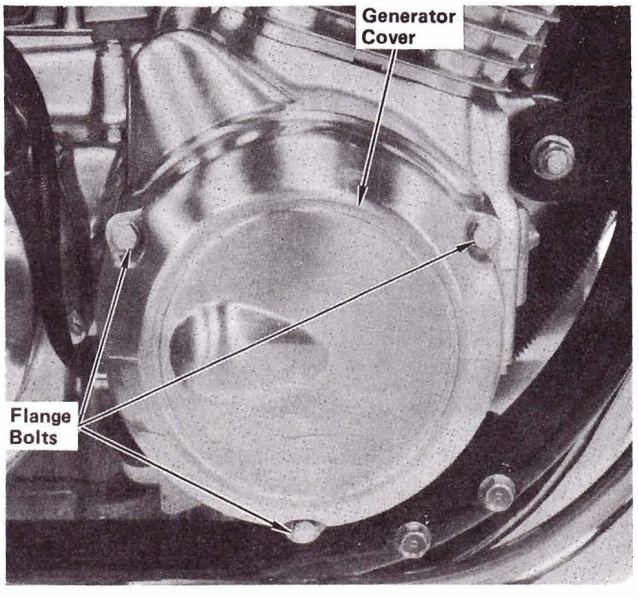
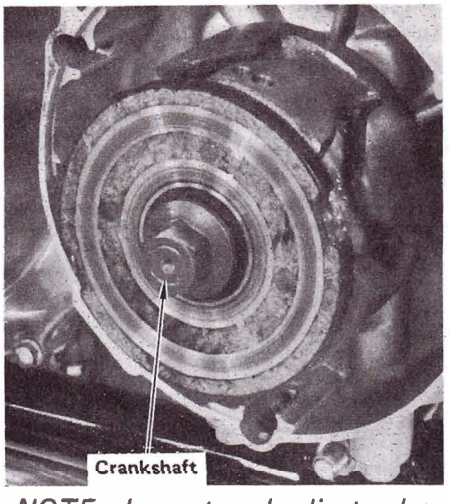
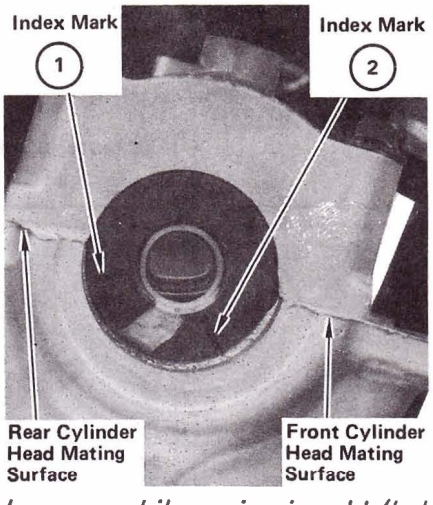
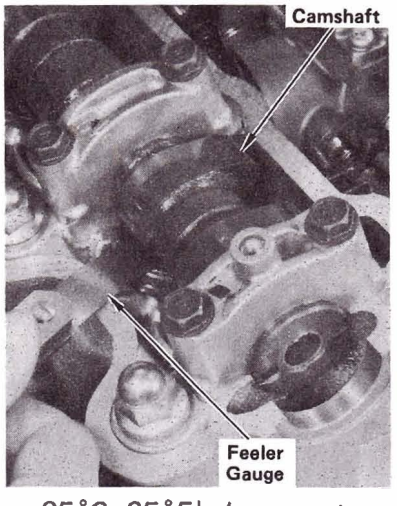








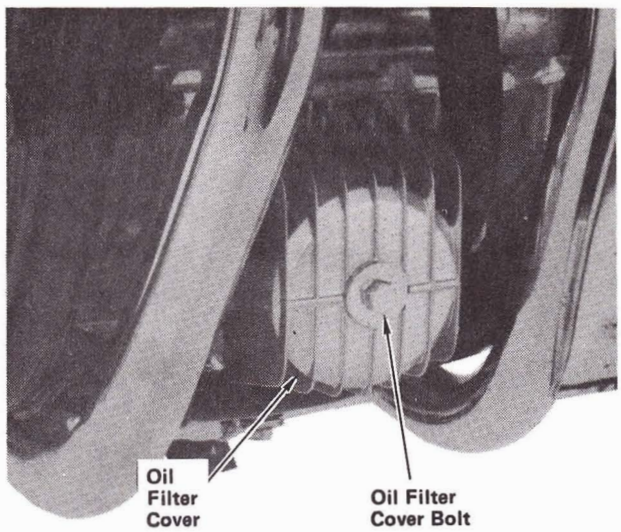


NOTE: Inspect and adjust valve clearance while engine is cold (below 35°C; 95°F). Lean motorcycle right and left to drain residual oil from cylinder head before removing cylinder head cover. #1 cylinder is on left side as viewed by rider.

STEP 80—VALVE CLEARANCE INSPECTION: Turn fuel petcock OFF, disconnect fuel line, and remove fuel tank. Remove tachometer cable, spark plug caps, cylinder head cover bolts, and cylinder head cover. Remove AC generator cover by removing flange bolts. Free wires at clamp. Measure intake and exhaust valve clearances by inserting feeler gauge between camshaft and valve lifter shim.

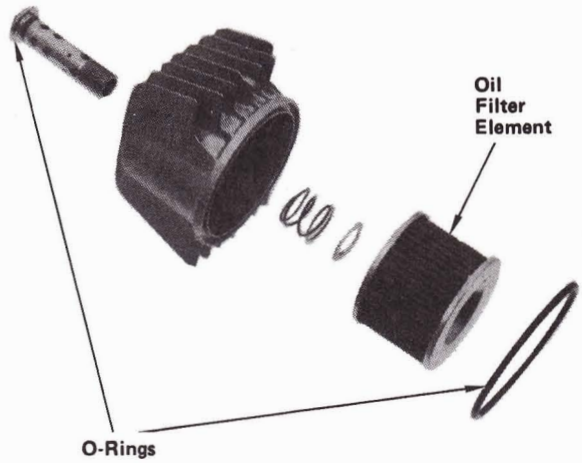
Rotate the crankshaft clockwise (from right side) and align index mark (1) on exhaust camshaft right end, with front cylinder head mating surface. Check and record valve clearance of #1 exhaust and #3 exhaust. Rotate camshaft 105° clockwise (via crankshaft 210°) to align index mark (2) on exhaust camshaft with front cylinder head mating surface. Check and record #1 intake and #3 intake. Rotate camshaft 75° clockwise to align index mark (1) with rear cylinder head mating surface. Check and record #2 exhaust and #4 exhaust. Rotate camshaft 105° clockwise to align index mark (2) with rear cylinder head mating surface. Check and record #2 intake and #4 intake. If necessary, adjust valve clearance as described in shop manual. If valve clearances are correct, reinstall cylinder head cover, tachometer cable, spark plug caps, and generator cover.

Valve clearance (intake and exhaust): 0.06–0.13 mm (0.002–0.005 in.)



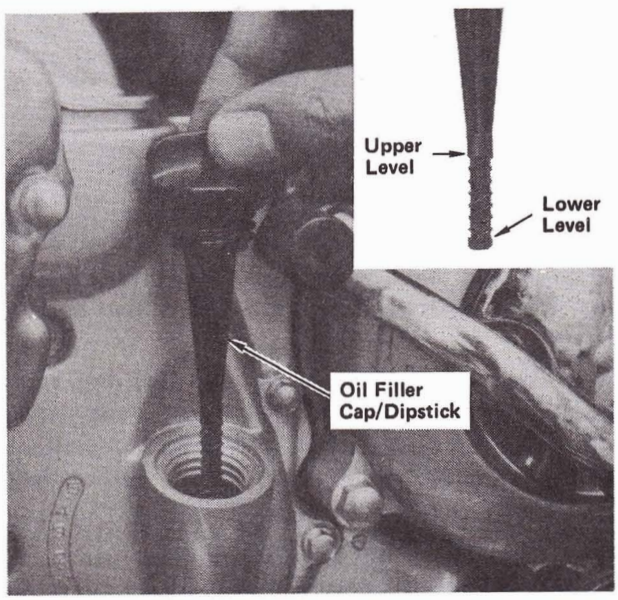
STEP 81—Remove oil filter cover bolt and drain oil from cover.

NOTE: Not required if less than 4 months have elapsed since date of manufacture shown on identification plate on steering head.

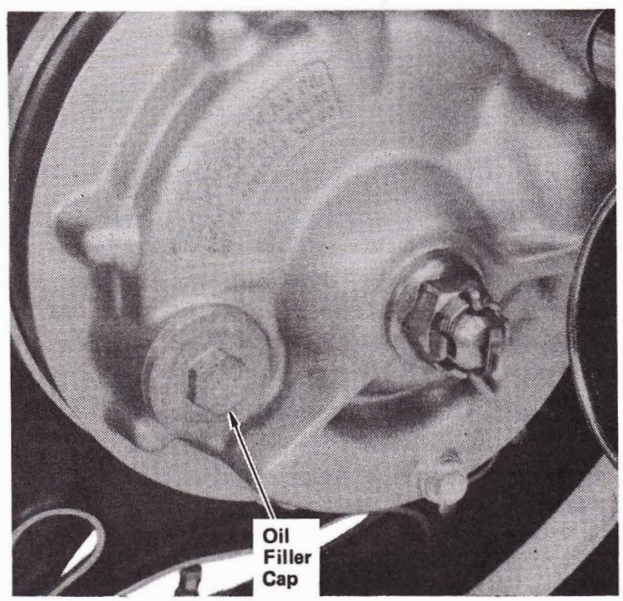


STEP 82—Inspect oil filter and O-ring. Replace if necessary. Install oil filter in cover as shown. Install oil filter cover and tighten bolt to specified torque.

Torque specification:
3.0 kg-m (22 lb-ft)



STEP 83—Remove oil filler cap/dipstick and fill crankcase with recommended oil as described in owner's manual or shop manual. Recheck oil level after engine has been operated for several minutes and add oil if necessary.



STEP 84—With motorcycle on centerstand, remove oil filler cap from final drive gear case.

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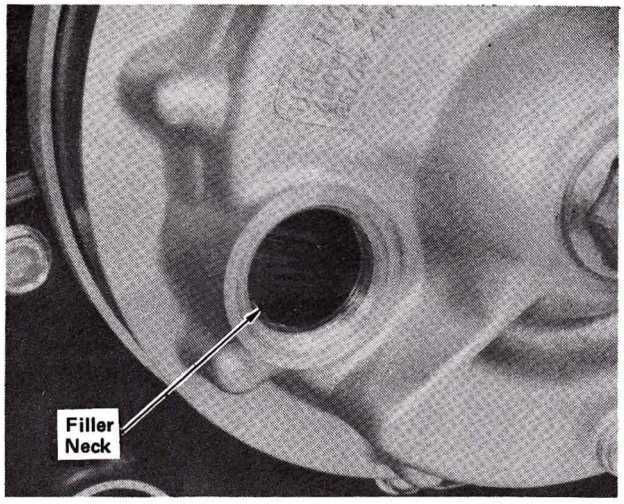
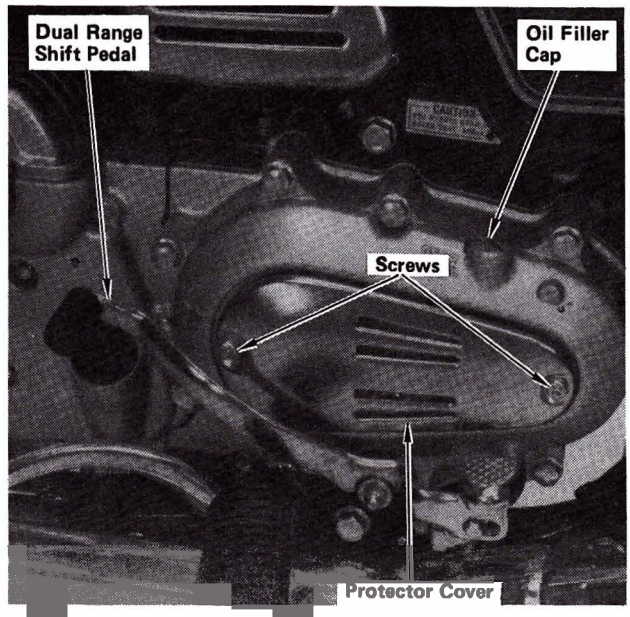
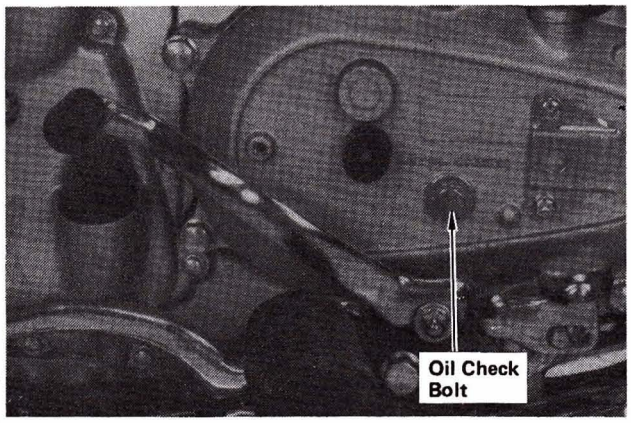


STEP 85—Check oil level in final drive gear case and, if necessary, fill gear case up to filler neck with recommended oil. Reinstall and tighten filler cap.

Oil Capacity:
0.15 liter (0.16 U.S. qt.)
Recommended Oil:
Hypoid Gear Oil
SAE 90 above 5°C. (41°F.)
SAE 80 below 5°C. (41°F.)

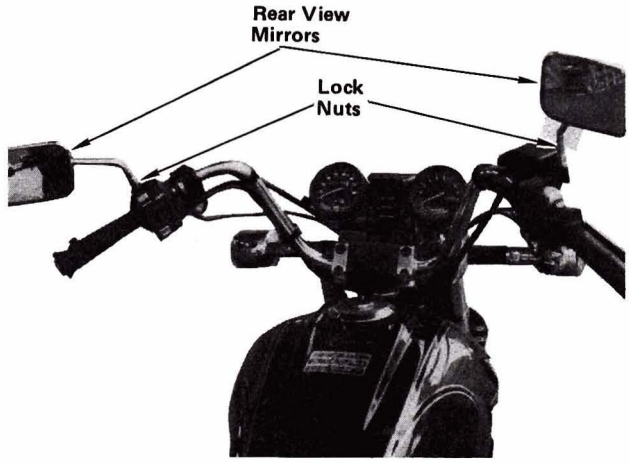


STEP 86—With motorcycle still on center-stand, remove dual range transmission protector cover by removing two screws. Remove oil filler cap.

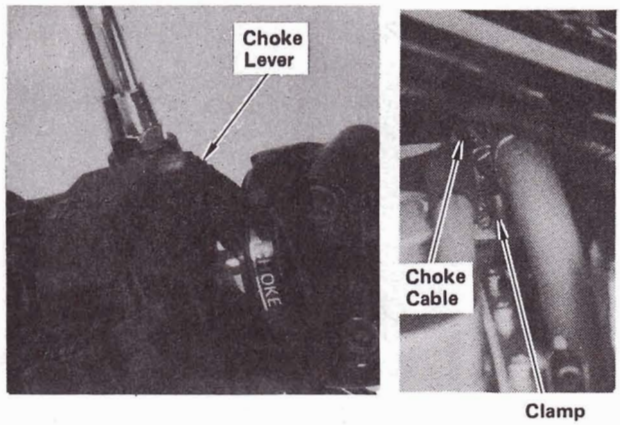


STEP 87—Remove oil level check bolt and check that oil level is even with lower edge of hole. If necessary add recommended oil. Reinstall oil level check bolt and filler cap. Tighten filler cap. Tighten oil check bolt to specified torque and reinstall protector cover.

Oil Capacity:
0.6 liter (0.61 U.S. qt.)
Recommended Oil:
Hypoid Gear Oil SAE 80
Torque specification:
2.2 kg-m (16 lb-ft)



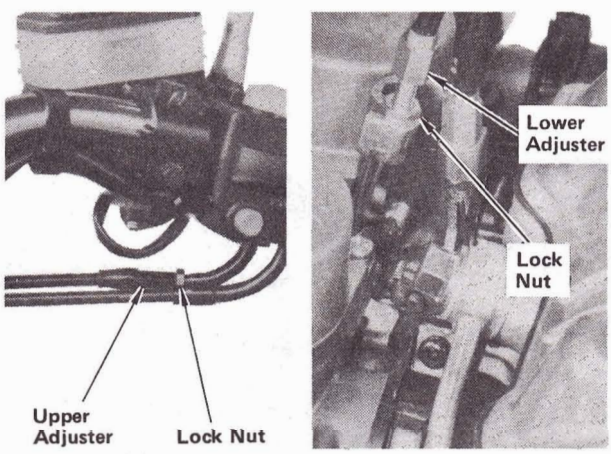
STEP 88—Install rear view mirrors and adjust mirrors prior to delivery. Tighten lock nuts securely.



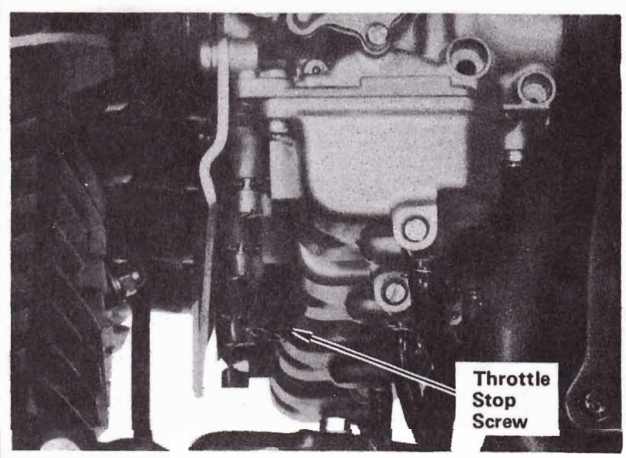
STEP 89—Operate choke lever and check for smooth operation of choke lever. Pull choke lever all the way down to fully open choke valves. Check that choke valves are fully open by trying to move choke lever on carburetor. Push handlebar choke lever all the way up to fully close choke valves. Check that choke valves are fully closed by checking for free play in cable between choke lever on carburetor and cable outer housing. If necessary, adjust free play by loosening cable clamp on carburetor and moving cable outer housing. Tighten clamp after adjustment.

STEP 90—Make sure that there is no deterioration, damage or kinks in throttle cables, and that throttle grip free play is 2—6 mm (1/8—1/4 in.) on outer edge of throttle grip flange. Check for smooth throttle grip full opening and automatic full closing in all steering positions. Adjust if necessary.

NOTE: Accelerator pump may flood carburetors during this inspection.



STEP 91—Major throttle free play adjustments are made at lower adjuster. To adjust, loosen adjuster lock nut and turn adjuster. Tighten lock nut. Minor adjustments are performed at upper adjuster. Recheck throttle operation. Replace any damaged parts. Install fuel tank and side covers.



STEP 92—Warm up engine with transmission in NEUTRAL, and motorcycle on centerstand. Turn throttle stop screw as required to obtain specified idle speed.

Idle speed: 1,000 ±100 rpm

NOTE: Inspect and adjust idle speed after all other engine adjustments are within specifications. Engine must be warm for accurate idle adjustment. Ten minutes of stop and go operation is sufficient.

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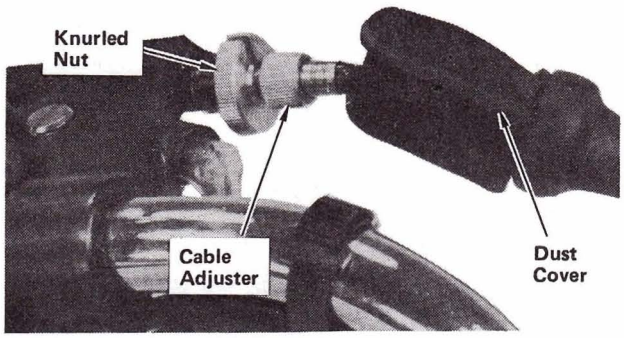
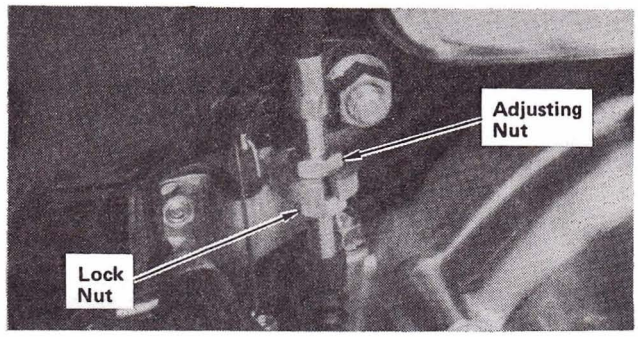
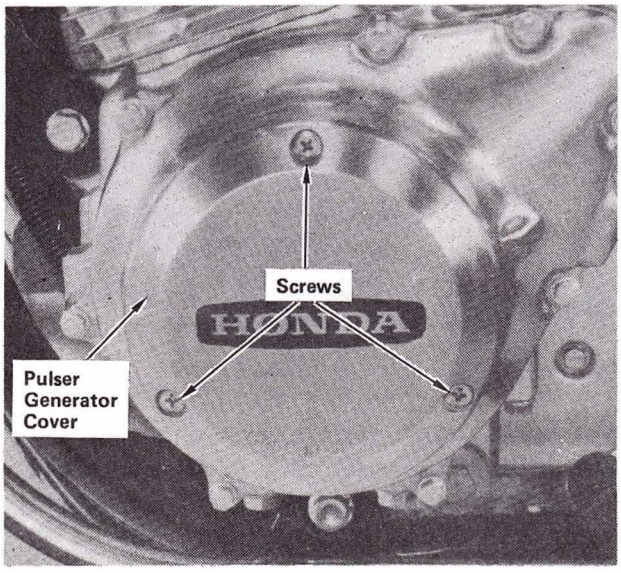


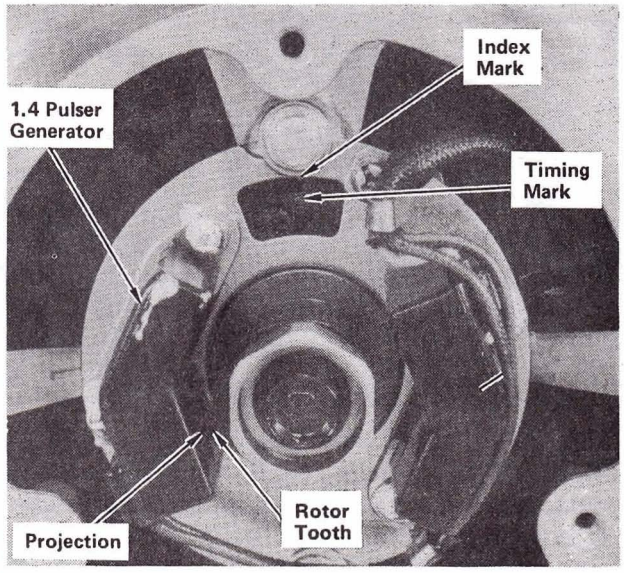


STEP 93– Check clutch lever free play, 10-20 mm (3/8—3/4 in.) measured at tip of clutch lever. If adjustment is necessary, loosen knurled nut and turn cable adjuster until correct free play is obtained. Tighten knurled nut. If adjustment cannot be made with clutch lever adjusting bolt, screw adjuster all the way in. Loosen lower clutch cable adjusting lock nut and turn adjusting nut all the way out to obtain maximum free play. Remove clutch lifter cap, loosen clutch lifter lock nut. Then turn adjusting screw clockwise until slight resistance is felt. From this position, turn clutch adjusting screw counterclockwise 3/4 turn, and tighten lock nut. Reinstall lifter cap. Turn clutch cable lower adjusting nut so that there is 10—20 mm (3/8—3/4 in.) of free play at end of clutch lever. Tighten lock nut. Any minor adjustment can be obtained with cable adjuster and knurled nut at clutch lever. After adjustment, be sure all lock nuts are tightened securely. Reinstall dust cover.

CAUTION: After adjusting clutch, check that clutch is not slipping, and that clutch is properly disengaging as follows: start engine, pull in clutch lever and shift into gear, and check that engine does not stall or motorcycle start to creep. Gradually release clutch lever and open throttle, motorcycle should start smoothly and accelerate gradually.

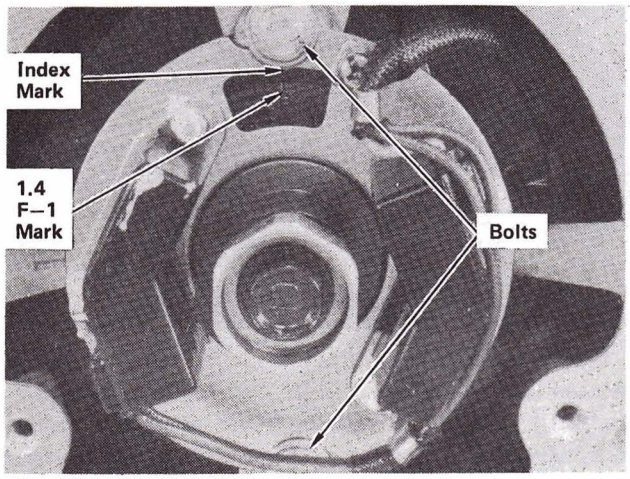


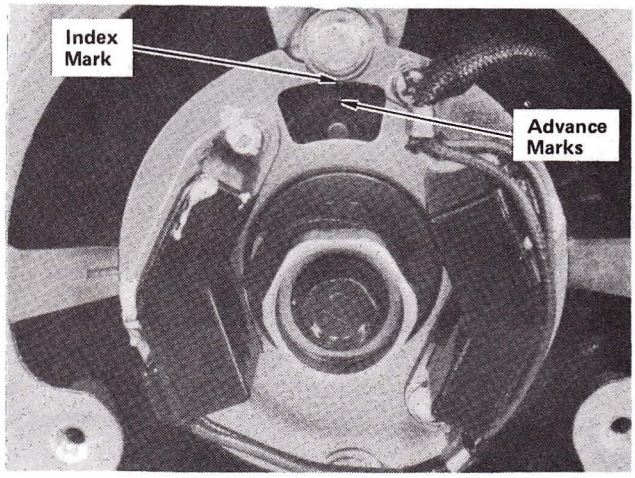
STEP 94—Remove three screws and pulser generator cover.



STEP 95—STATIC TIMING METHOD: rotate crankshaft counterclockwise and align "1.4S-F" mark with index mark. Timing is correct if narrow projection of "1-4" pulser generator aligns with rotor tooth.

NOTE: Either #1 or #4 piston must be near T.D.C. (Top Dead Center) of compression stroke at this time.

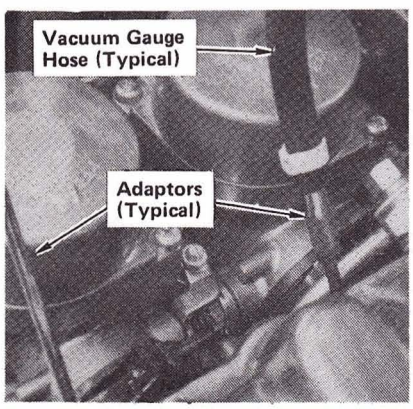


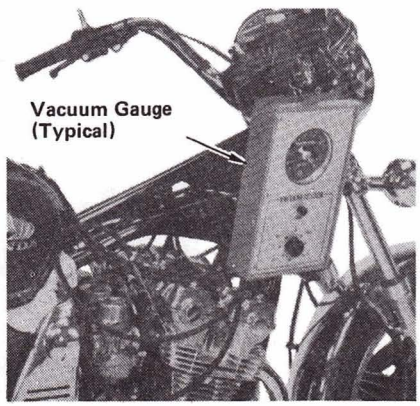


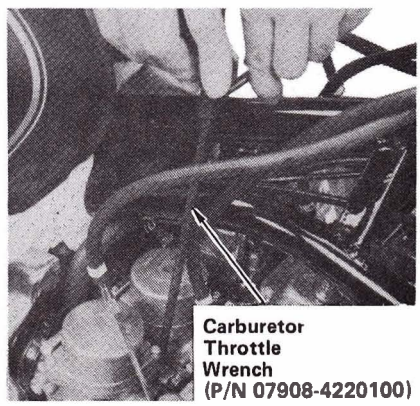
STEP 96– DYNAMIC TIMING METHOD: remove pulser generator cover. Connect stroboscopic timing light to #1 cylinder's high tension lead. Start engine and let it idle. Aim timing light at timing mark. "1.4 F-1" mark should align with index mark. If timing is not correct, adjust by loosening two pulser base plate bolts and rotating plate. Tighten bolts and recheck timing. Start engine and bring engine speed to 3,100 rpm or above and check that index mark is between full advance marks. Replace advancer assembly if it is not functioning properly. Reinstall pulser generator cover.

Idle speed: 1,000 ±100 rpm

CAUTION: Do not allow engine speed to exceed 9,500 rpm or engine damage may result.







STEP 97—Remove both side covers and seat. Turn fuel petcock OFF and remove fuel line and fuel tank. Prepare a longer fuel line and connect it between fuel tank and carburetor. Position fuel tank higher than normal. Remove plugs from intake ports and install vacuum gauge adapters, and connect vacuum gauges. Turn fuel petcock ON. Start engine and adjust idle speed. Check that difference in vacuum readings is 60 mm Hg (2.4 in. Hg) or less. If necessary, adjust by loosening lock nuts and turning adjusting screws with carburetor throttle wrench tool. Tighten lock nuts and recheck idle speed and synchronization. Remove fuel line extension, and adapters. Reinstall fuel tank and side covers. Reinstall seat using socket head bolts removed in Step 20, and install right and left side covers.

NOTES:

- *Synchronize carburetors with engine at normal operating temperature, transmission in neutral and motorcycle on centerstand.*
- *#2 carburetor cannot be adjusted; it is base.*

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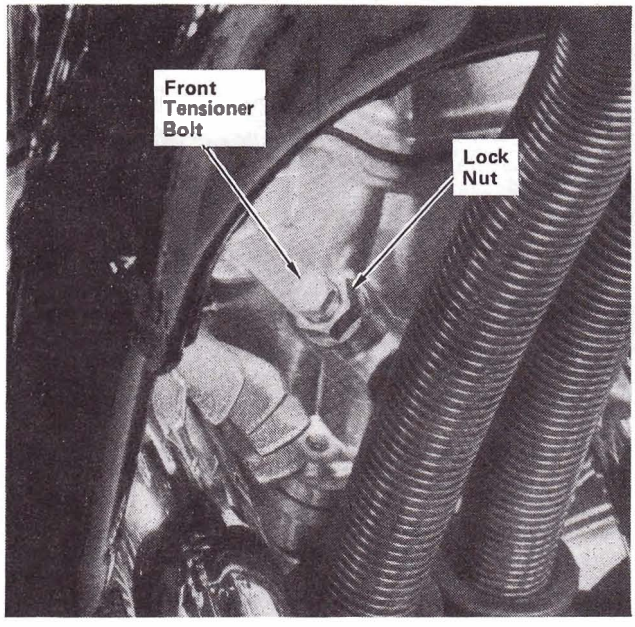
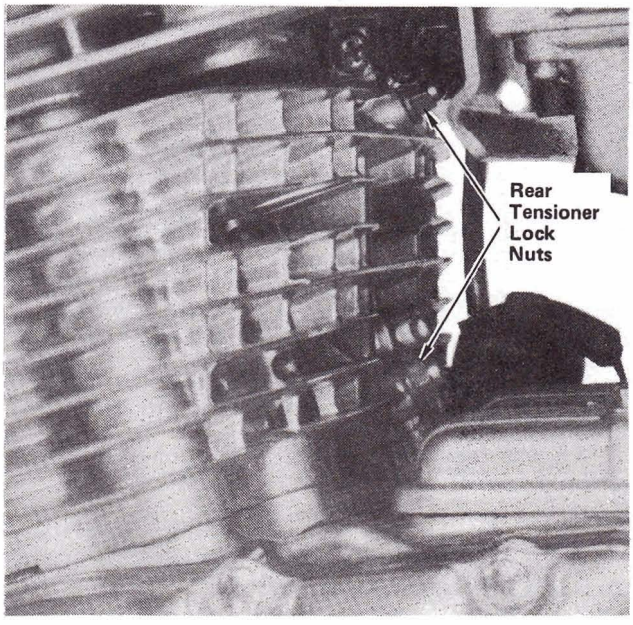
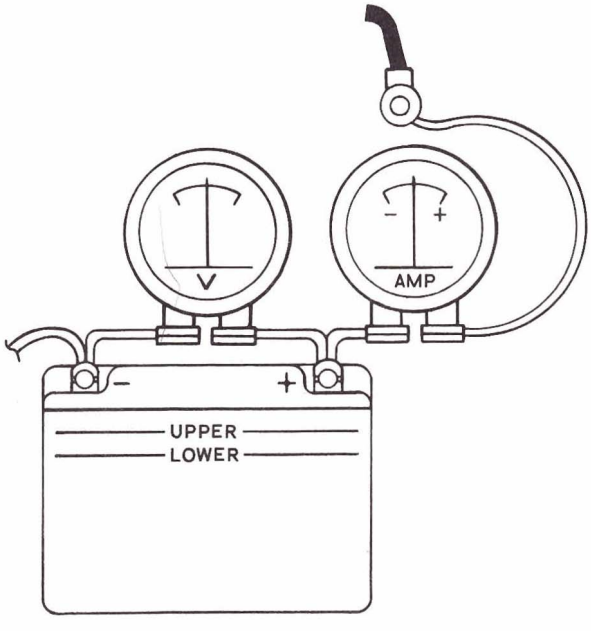




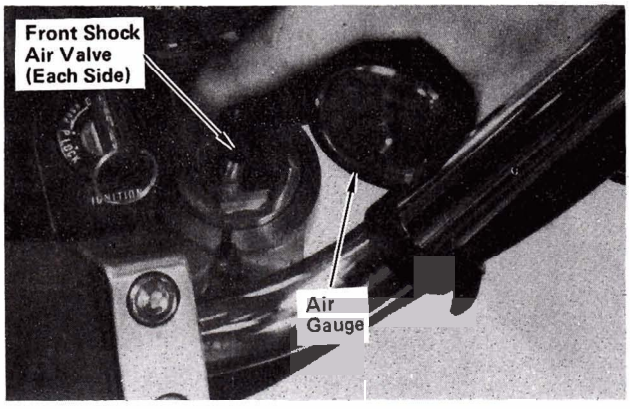
STEP 98—With engine stopped, remove right dynamo cover. Loosen cam chain tensioner lock nut and bolt at front of cylinder head. Tighten bolt while rotating crankshaft clockwise. Tighten lock nut. Loosen both top and bottom nuts of rear cam chain tensioner. Tighten nuts while rotating crankshaft clockwise. The tensioners will automatically provide correct tension when lock nuts/bolts are loosened. Install dynamo cover.

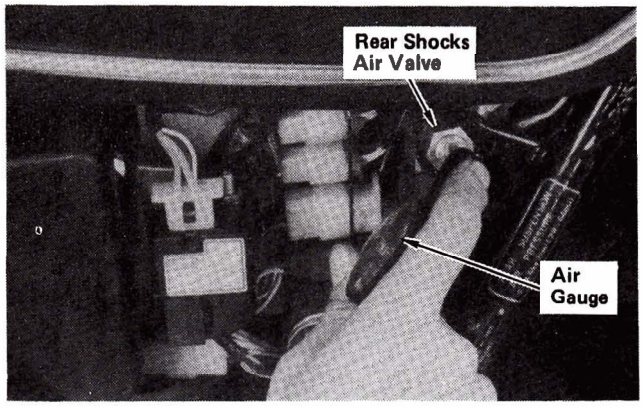


STEP 99—Check battery charging system (volts and amperes) at battery, as described in shop manual.

CAUTION

REMOVE BATTERY AND MAINTAIN IN FULLY CHARGED CONDITION UNLESS MOTORCYCLE IS TO BE DELIVERED IMMEDIATELY. REFER TO SERVICE BULLETIN SL #48. DO NOT USE ELECTRIC STARTER IMMEDIATELY AFTER INSTALLATION OF A FRESHLY CHARGED BATTERY, SOME TIME IS REQUIRED FOR BATTERY TO ATTAIN FULL CAPACITY.





STEP 100—Remove left side cover. Check air pressures in front and rear shock absorbers. Reinstall left side cover.

NOTE: Check air pressures when front and rear shock absorbers are cold.

1. Place motorcycle on centerstand. (Do not use side stand when checking).
2. Remove caps from air valves for front and rear shock absorbers.
3. Check front and rear shock absorber air pressure with an air gauge.
4. Add air if necessary.

   Recommended Air Pressures:
   Front: 6–14 psi
   Rear: 0–57 psi
5. Reinstall air valve caps.

TORQUE TABLE

ITEM	SIZE	TORQUE
Handlebar holder socket bolts	8 mm	2.5 kg-m (19 lb-ft)
Master cylinder holder bolts	6 mm	1.0 kg-m (8 lb-ft)
Engine mount bolts	10 mm	4.0 kg-m (29 lb-ft)
Front fork pinch bolts -- upper	------	1.1 kg-m (9 lb-ft)
Front fork pinch bolts — lower	------	4.4 kg-m (32 lb-ft)
Front fender bolts	6 mm	1.0 kg-m (8 lb-ft)
Front axle	------	6.0 kg-m (44 lb-ft)
Axle holder nut	8 mm	2.0 kg-m (15 lb-ft)
Caliper mounting bolts (caliper bracket)	------	3.5 kg-m (26 lb-ft)
Anti-dive link bolt	------	2.2 kg-m (16 lb-ft)
Caliper pivot bolt	------	3.5 kg-m (26 lb-ft)
Caliper mounting bolts	8 mm	2.2 kg-m (16 lb-ft)
Pad pin retainer bolts	6 mm	1.0 kg-m (8 lb-ft)
Front fork stabilizer bolts	8 mm	2.3 kg-m (17 lb-ft)
Instrument mount cap nuts	8 mm	2.1 kg-m (16 lb-ft)
Headlight case bolts	------	3.5 kg-m (26 lb-ft)
Rear handrail bolts	8 mm	2.1 kg-m (16 lb-ft)
	6 mm	1.1 kg-m (8 lb-ft)
	10 mm	4.0 kg-m (29 lb-ft)
Foot peg bracket nut	10 mm	4.0 kg-m (29 lb-ft)
Rear brake pedal bolt	8 mm	2.1 kg-m (16 lb-ft)
Oil filter cover bolt	------	3.0 kg-m (22 lb-ft)
Cylinder head cover bolts	------	1.0 kg-m (8 lb-ft)
Final drive gear case filler cap	------	1.2 kg-m (9 lb-ft)
Dual range transmission check bolt	------	2.2 kg-m (16 lb-ft)

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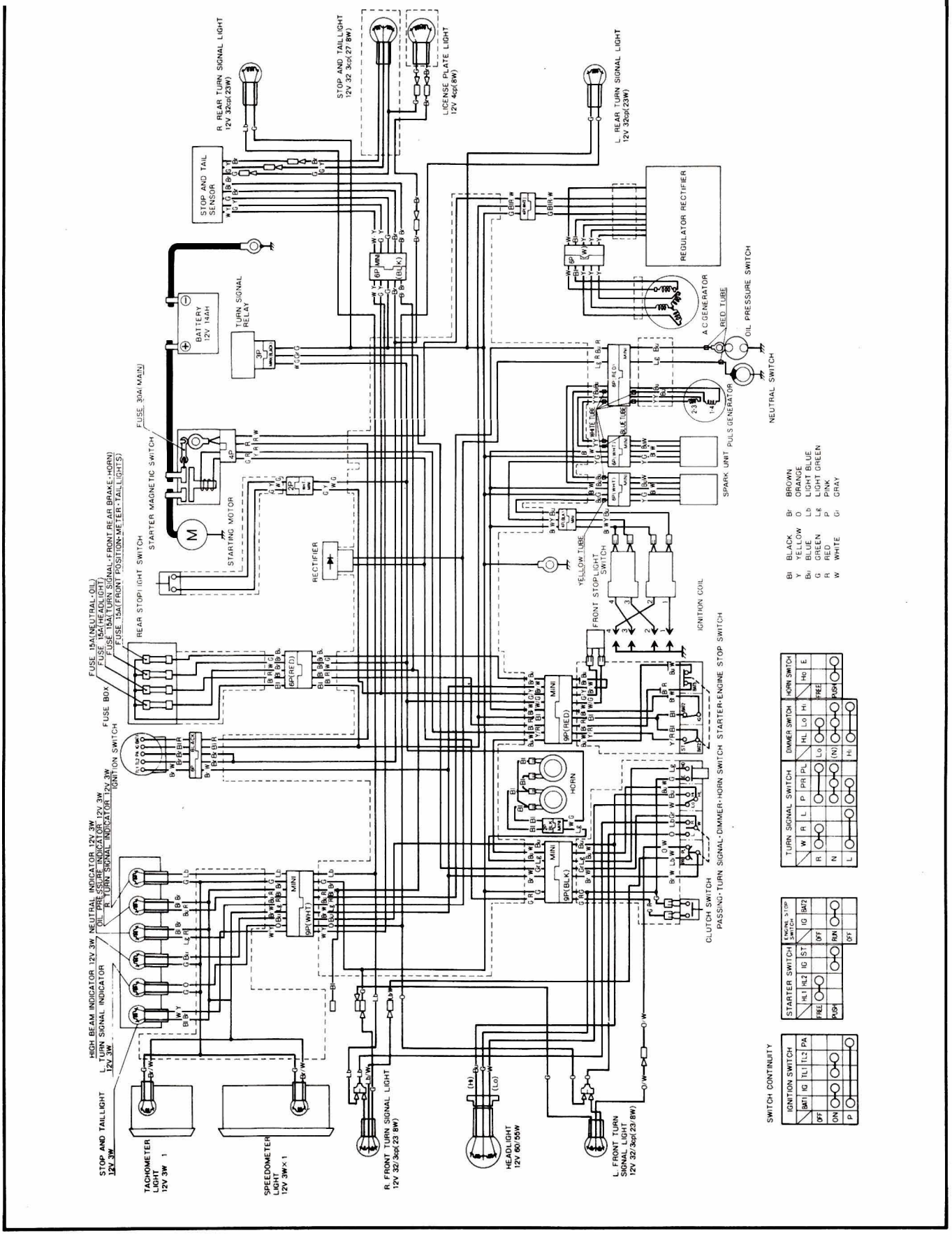

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NOTE: Check all items listed on the following Pre-Delivery Service Check List. Refer to owner's manual or shop manual for specifications and detailed procedures. Always test ride the unit to make sure that it is functioning properly.

PRE-DELIVERY SERVICE CHECK LIST

- ☐ Fill front and rear brake master cylinder reservoirs with DOT 3 brake fluid, and bleed brake system.
- ☐ Check operation of front and rear brakes.
- ☐ Adjust rear brake pedal height.
- ☐ Adjust clutch, check cable routing, and check operation.
- ☐ Fill crankcase with recommended oil.
- ☐ Remove and inspect fuel tank, drain and flush.
- ☐ Check valve clearance, adjust if necessary.
- ☐ Reinstall fuel tank, fill with fuel, turn on fuel petcock and check for leaks.
- ☐ Check and clean air cleaner element.
- ☐ Adjust cam chain tension.
- ☐ Install and adjust mirrors.
- ☐ Check choke operation and adjust idle speed.
- ☐ Check ignition timing. Adjust if necessary.
- ☐ Synchronize carburetors.
- ☐ Check throttle grip free play, cable routing, and operation in all steering positions.
- ☐ Fill dual range transmission and final drive gear case with recommended oil, if necessary.
- ☐ Check tire pressure and wheel condition.
- ☐ Check operation and air pressure 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 switches: Adjust and check operation with both front and rear brake controls.
  - Turn signals.
  - Position lights.
  - License plate light.
  - Horn.

  Engine stop switch.

  Starter.
  - Instrument, flasher, oil pressure, headlight, and neutral indicator lights.
  - Battery charging system.
- ☐ Check security of all nuts, bolts, and other fasteners.
- ☐ Check to ensure that 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.
  - Handling: Stability and cornering.

  Brakes: Smoothness and stopping power.
  - Idling: Smoothness, throttle response, return to idle.
  - Recheck 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.

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1983 LOOSE PARTS

The following is a list of items contained in the crate.

PART NAME	QTY	H/C	PART NUMBER
Bolt, socket head, 8 x 32 mm, handlebar	4	125114	90154-MB1-000
Upper holder, handlebar, right	1	124989	53235-MB1-000
Upper holder, handlebar, left	1	126069	53236-MB1-000
Handlebar cover	1	124976	53105-MB1-000
Cap, socket head bolt	4	125167	91455-MB0-000
Front fender	1	129009	61100-MG1-000
Grommet, front fender	1	105226	45451-471-000
Bolt, flange, 6 x 16 mm, front fender	4	029741	95700-06016
Front wheel	1	------	----------
Speedometer gearbox	1	124808	44800-MB0-003
Screw, oval head, 5 x 20 mm	1	076872	93700-05020-0G
Front axle	1	------	44301-461-770
Axle collar	1	094634	44311-461-770
Bolt, flange, 8 x 50 mm, front wheel	1	068787	95700-08050-00
Nut, flange, 8 mm, front wheel	1	048114	94050-08000
Bolt, flange, 8 x 55 mm, front wheel	1	121310	90180-MA3-660
Speedometer cable guide	1	124812	44832-MB1-000
Bolt, flange, 8 x 20 mm	1	121333	95700-08020-07
Front fork stabilizer (front fork brace)	1	------	53240-MB1-010
Bolt, socket head, 8 x 17 mm	4	125112	90153-MB0-000
Cap, socket head bolt	4	125167	91455-MB0-000
Rear view mirror, right	1	125071	88110-MB1-003
Rear view mirror, left	1	125073	88120-MB1-003
Battery	1	105399	31500-461-771 or 31500-461-772
Battery terminal bolt	2	------	----------
Battery terminal bolt nut	2	------	----------
Battery terminal bolt washer	2	------	----------
Right side cover	1	------	83620-MG1-000
Left side cover	1	------	83720-MG1-000
Dust cover, handle lever	1	092689	53180-425-010
Wire band B1	4	046881	32161-404-000
Master cylinder holder	1	123573	45517-MB0-006
Bolt, socket head, 6 x 23 mm	2	123707	90117-MB0-000
Handrail	1	129016	77320-MG1-000
Bolt, handrail	4	129064	90191-MG1-000
Rear shock absorber upper nut	2	129067	90309-MG1-000
Rear reflex reflector	2	079999	33741-148-871
Right footpeg	1	128910	50630-MG1-000
Nut, flange, 10 mm	1	048386	94050-10000
Rear brake pedal	1	128900	46500-MG1-000
Bolt, flange, 8 x 25 mm	1	067121	95700-08025-00
Owner's manual	1	129080	31MG1000
Nut, instrument	2	125125	90303-MB1-000