

Set-up Instructions

1980-1982 Models CX500 CUSTOM



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

WARNING

WARNING

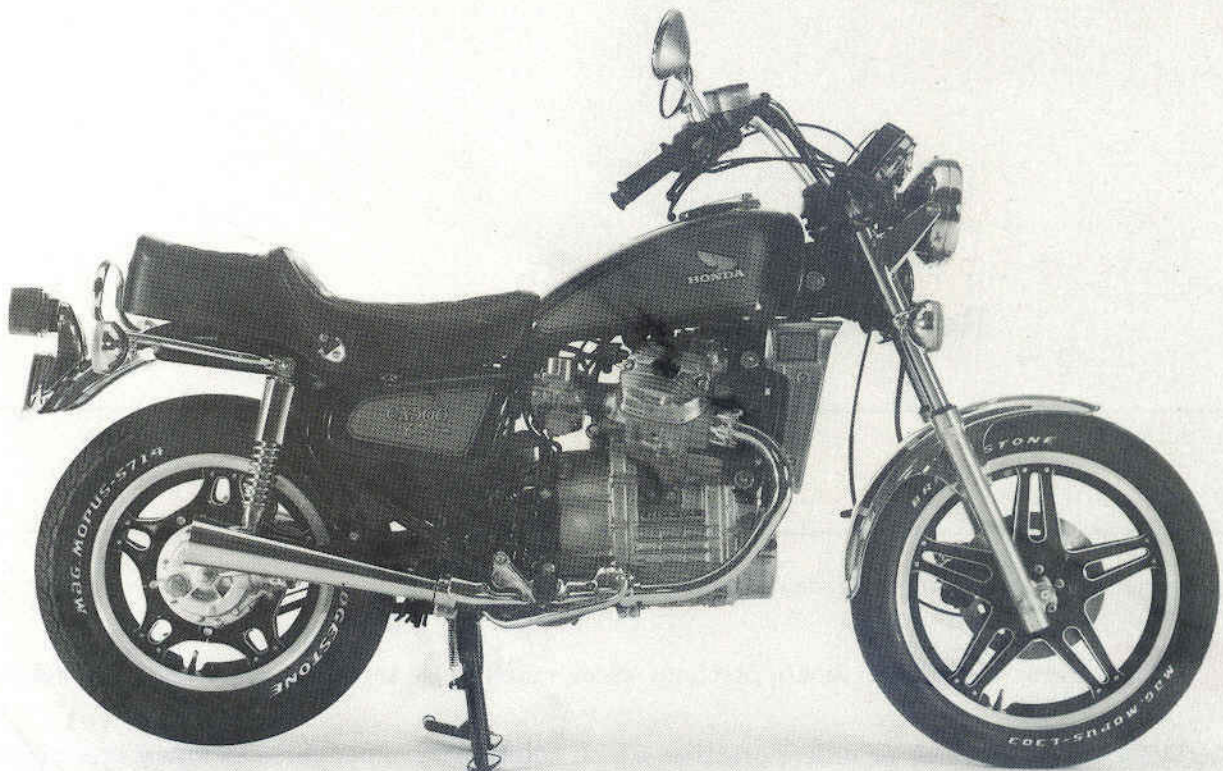
WARNING

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.

THIS ISSUE OF THE CX500 CUSTOM SET-UP INSTRUCTIONS REPLACES THE 1980, 1981 MODELS CX500 CUSTOM SET-UP INSTRUCTIONS DATED 9/80 AND COVERS THE EMISSION CONTROLLED MOTORCYCLES. REMOVE AND DESTROY SUPERSEDED SET-UP INSTRUCTIONS.

1982 CX500 CUSTOM MODEL SHOWN; 1980 AND 1981 CX500 CUSTOM MODELS SIMILAR



NOTES:

- All steps apply to 1980-1982 CX500 Custom Models unless otherwise noted.
- Right and left are determined from the rider's view.

SET-UP INSTRUCTION REVISED PAGES

Pages Affected

Orig. Issue Date

Rev. Date

1 through 48

9/81

Original

Remove and destroy superseded pages.

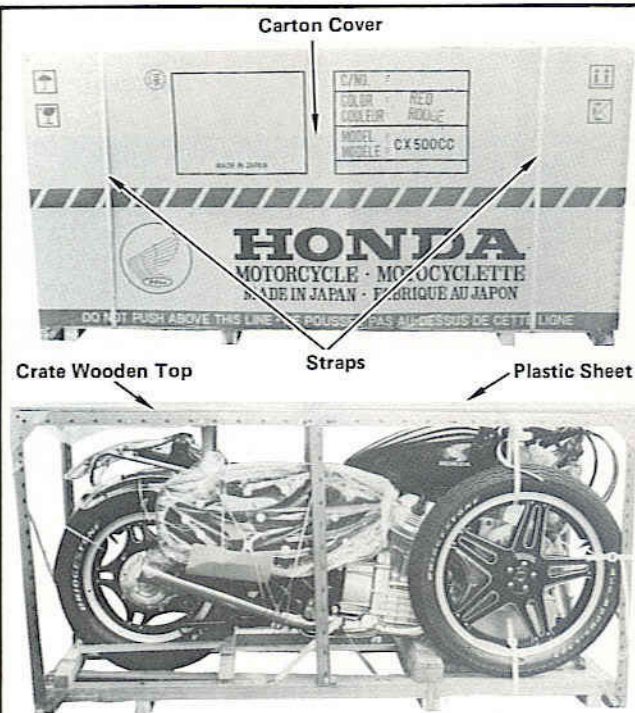
Pay special attention to warnings, cautions, and notes.

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

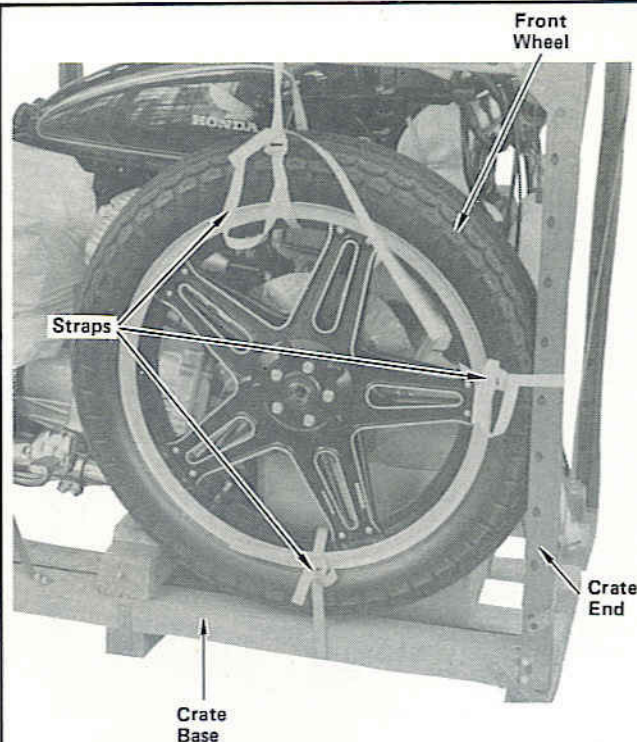
CAUTION: means hazards or unsafe practices which could cause minor personal injury or product or property damage.

NOTE: gives helpful information.

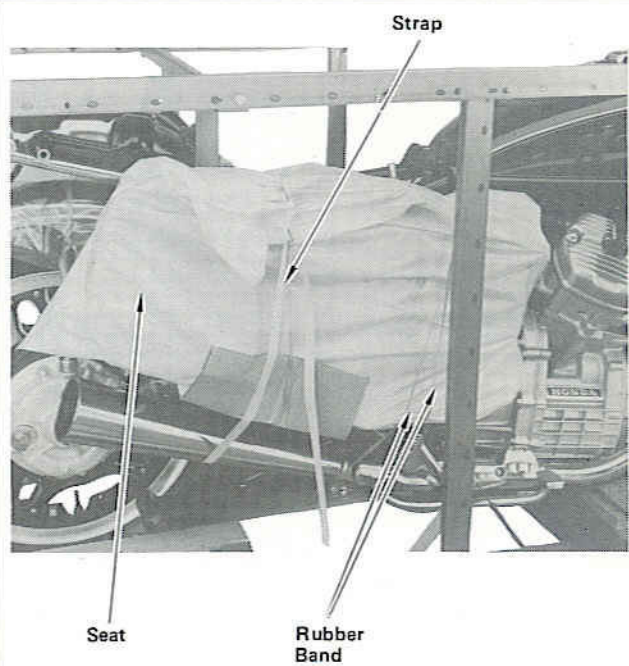
9/81



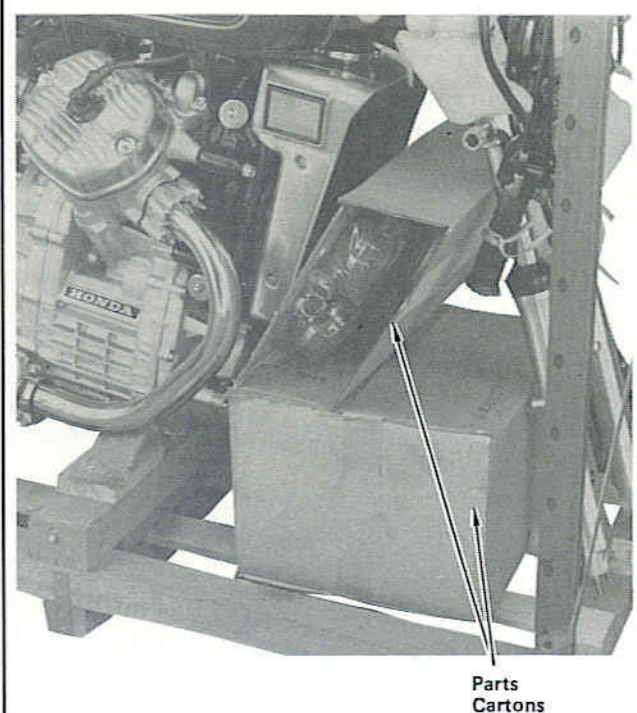
STEP 1—Cut straps and lift off carton cover. Remove crate wood top and plastic sheet.



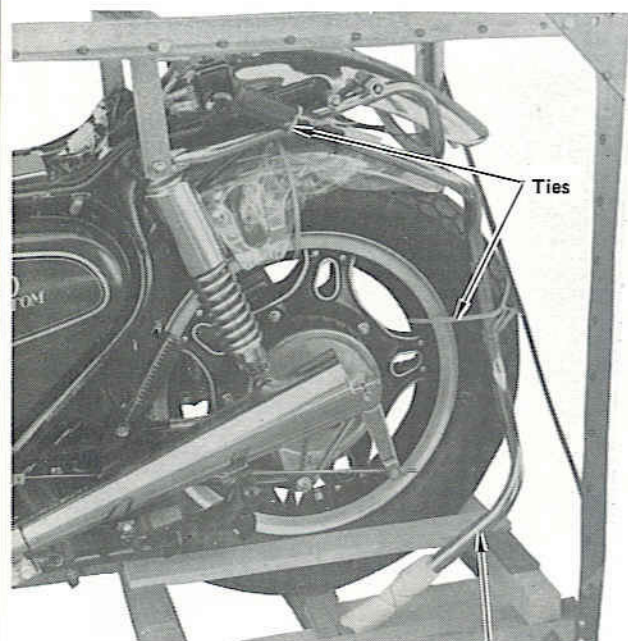
STEP 2—Cut straps holding front wheel to crate top, end, and base. Remove front wheel.



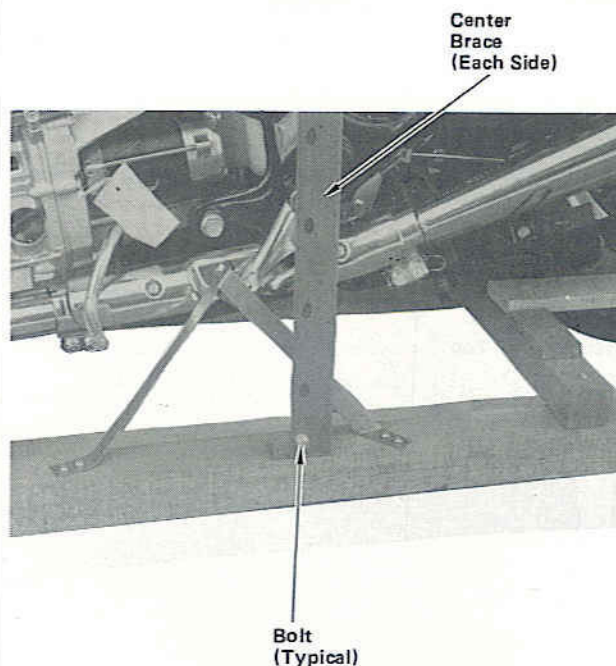
STEP 3—Cut strap and rubber bands holding seat. Remove seat.



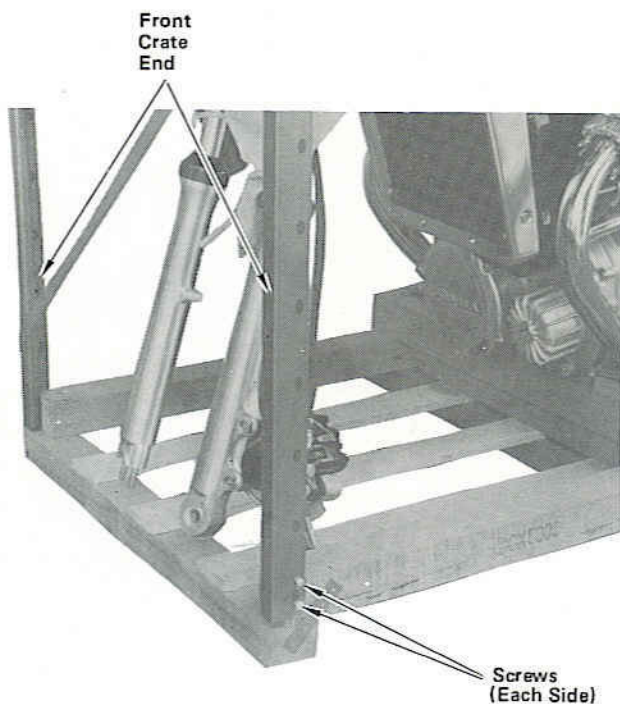
STEP 4—Remove parts cartons from behind front fork legs.



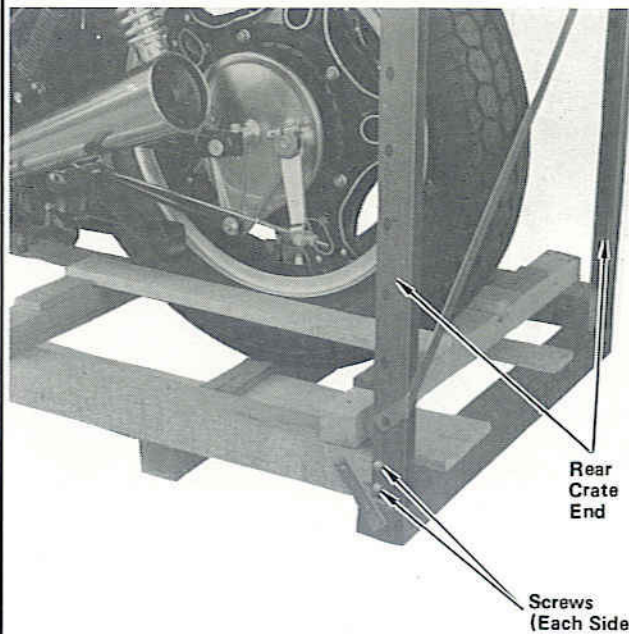
STEP 5—Remove ties holding handlebar. Remove handlebar.



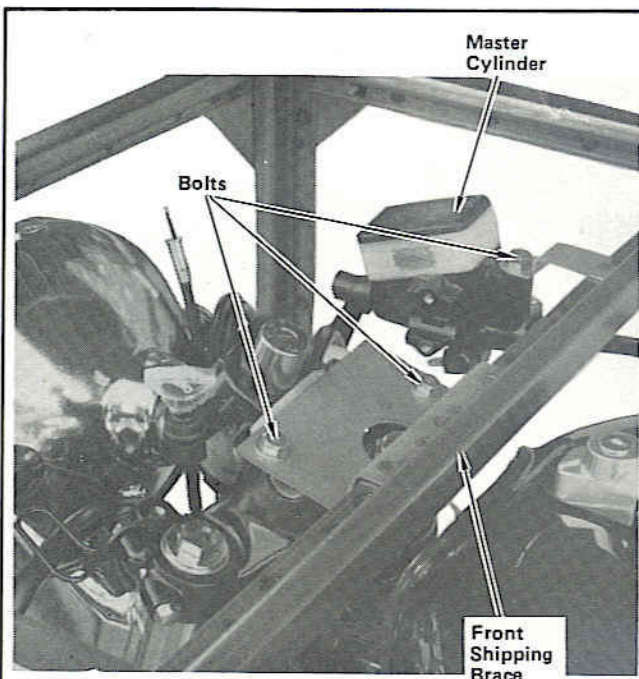
STEP 6—Remove bolts holding right and left center braces to crate base. Discard bolts and braces.



STEP 7—Remove four screws holding front crate end to crate base. Discard screws.



STEP 8—Remove four screws holding rear crate end to crate base. Discard screws.

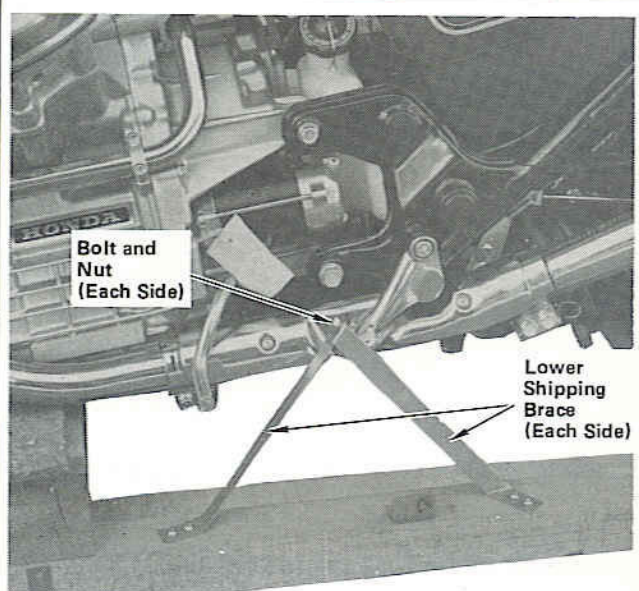


STEP 9—Remove bolt holding master cylinder to strap of front shipping brace. Support master cylinder so as not to damage motorcycle. Remove two bolts attaching front shipping brace to handlebar lower holders. Discard bolts.

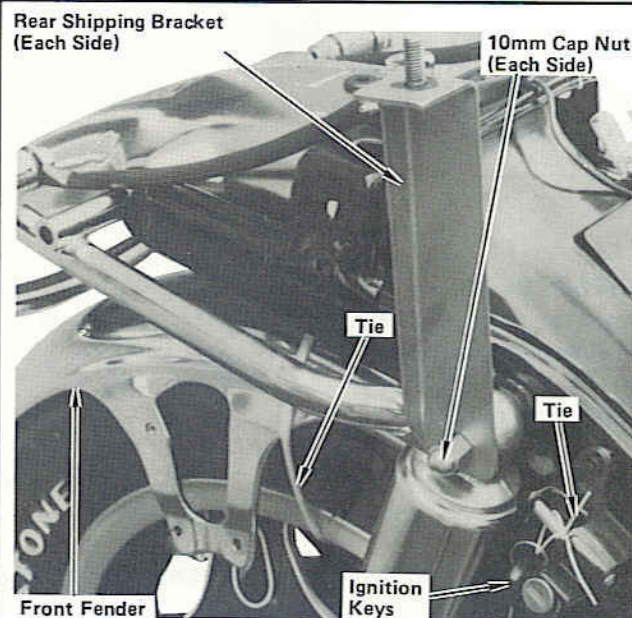


STEP 10—Remove two nuts attaching rear shipping brace to rear shipping brace brackets. Discard nuts. Carefully lift off crate frame.

CAUTION: Do not allow crate frame to damage motorcycle.

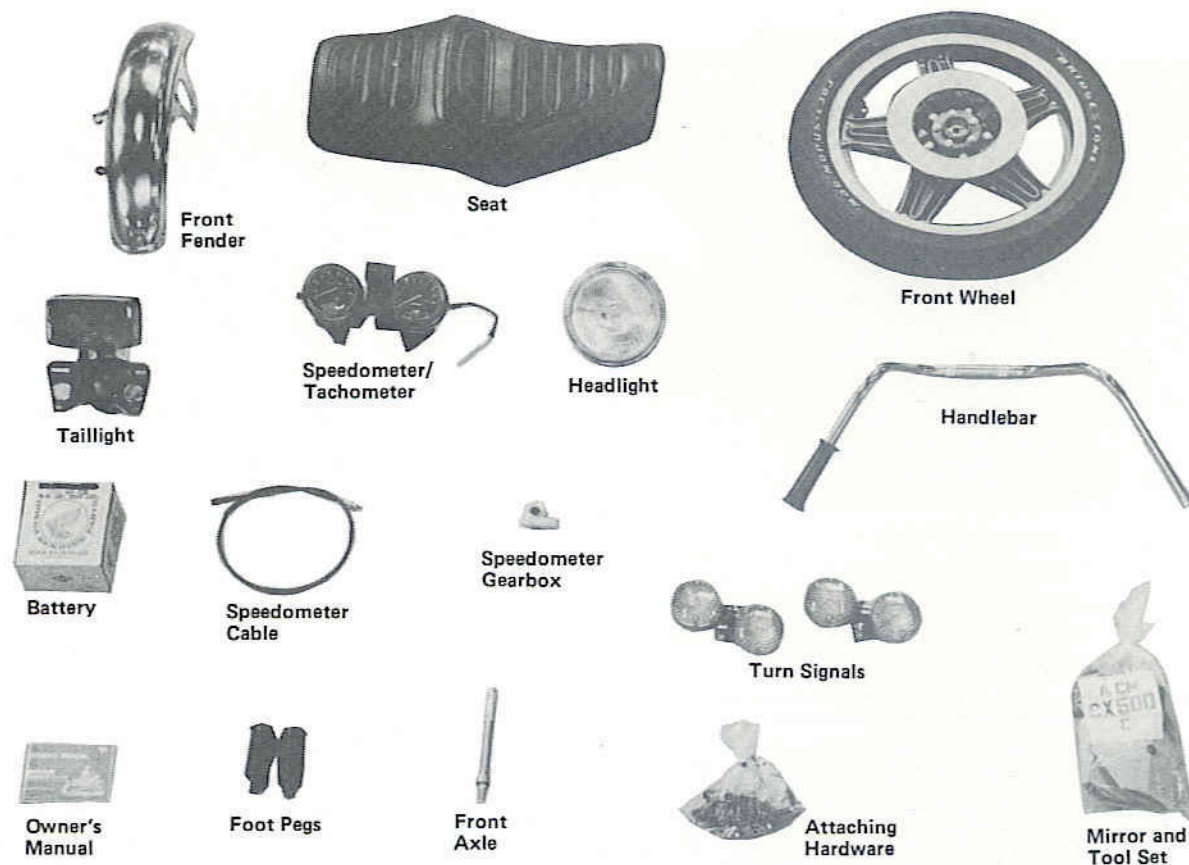


STEP 11—Remove bolts and nuts attaching right and left foot peg brackets to lower shipping braces. Discard bolts. Bend lower shipping braces out of the way.



STEP 12—Remove and retain 10mm cap nuts attaching rear shipping brackets. Remove and retain 8 x 80mm cap bolts attaching rear handrail to frame. Remove rear handrail and retain. Remove tie and carefully remove front fender from under rear fender. Discard shipping brackets.

1981 PARTS SHOWN; 1980 AND 1982 PARTS SIMILAR



STEP 13—Unpack remaining loose parts and check against this illustration. Report any damaged or missing parts immediately to American Honda Motor Co., Inc., 100 West Alondra Blvd., Gardena, California 90247.

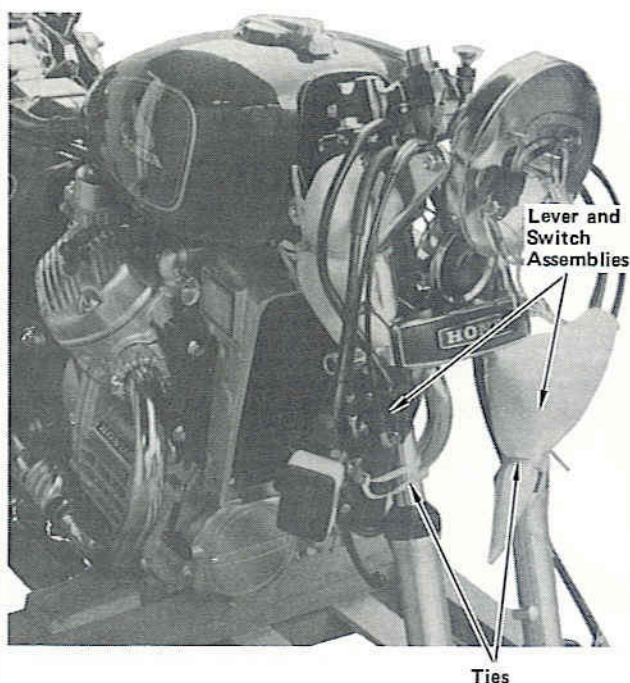
Damaged or Missing Parts

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

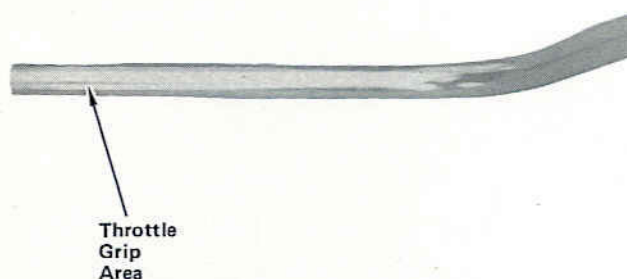
It is necessary to differentiate between parts lost or damaged in transit, and parts left out by the factory.

- 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.

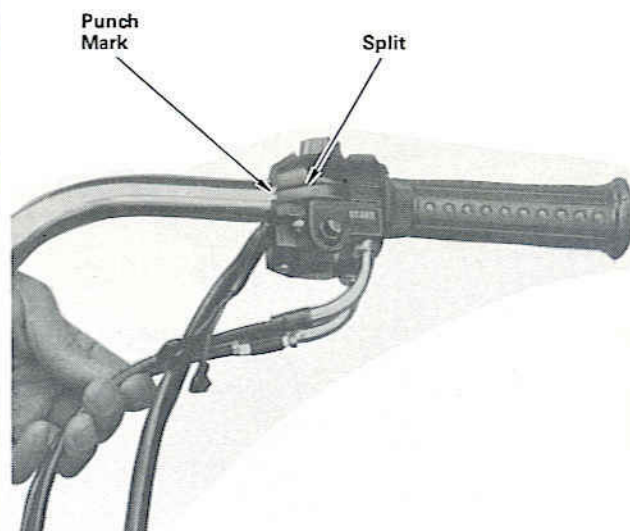
Refer to the Warranty Policy and Procedures Manual (SO 945) under **Shipping Damage and Crate Shortage** for further information.



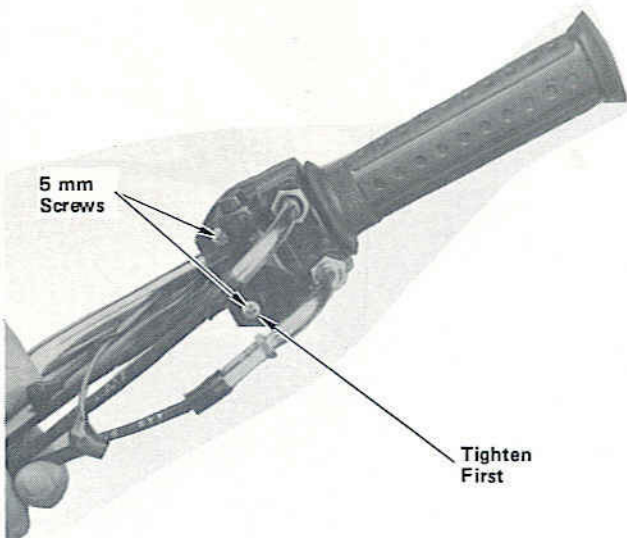
STEP 14—Remove ties holding levers and switch assemblies to front fork legs. Remove protective coverings.



STEP 15—Clean throttle grip area of handlebar and apply a thin coat of clean grease.



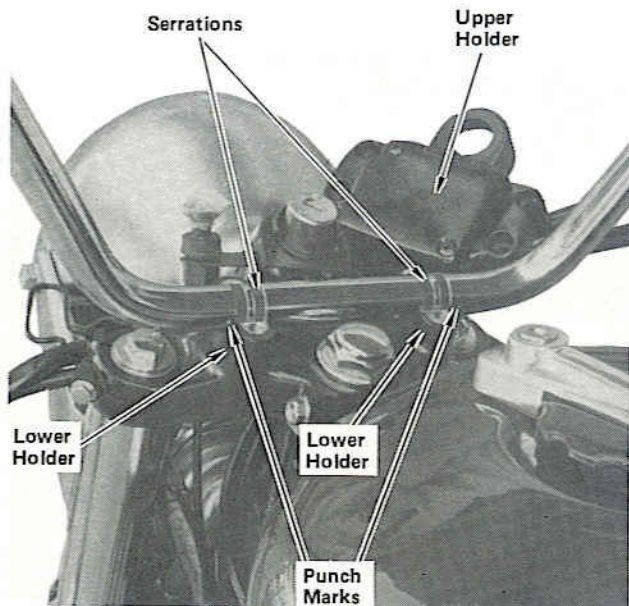
STEP 16—Slip throttle grip assembly onto handlebar and align split in switch housing with punch mark on handlebar. Be sure throttle cables are not twisted.



STEP 17—Tighten forward 5 mm screw to specified torque first, then tighten rear 5 mm screw to same torque.

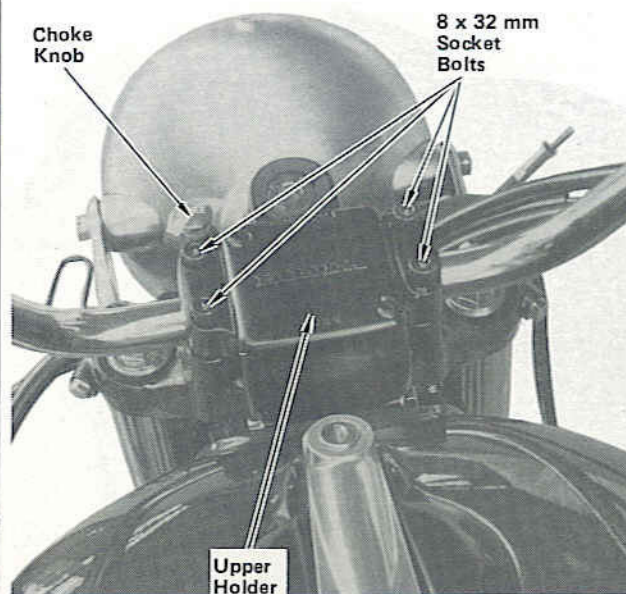
Torque specification:
0.5 kg-m (4 lb-ft)

1980, 1981 MODELS ONLY



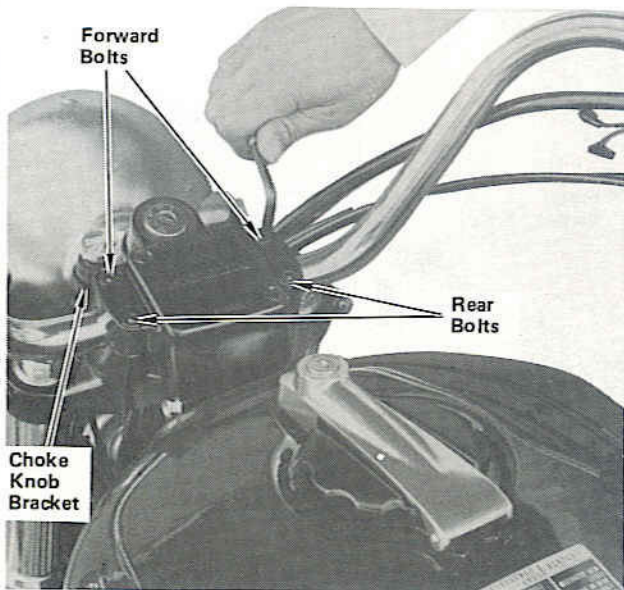
STEP 18—Raise handlebar upper holder and position handlebar on lower holders with serrations aligned with holders and punch marks on handlebar aligned with top of holders.

1980, 1981 MODELS ONLY



STEP 19—Position upper holder on handlebar as shown, with choke knob bracket between left lower holder and upper holder as shown. Attach upper holder loosely using four 8 x 32 mm socket bolts.

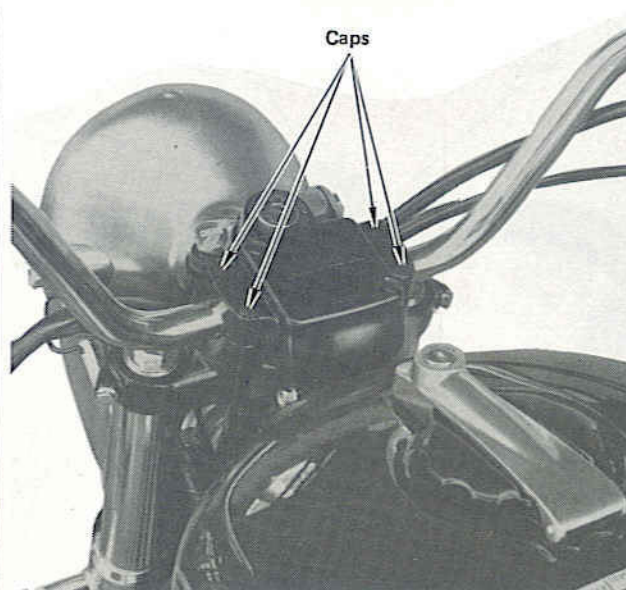
1980, 1981 MODELS ONLY



STEP 20—Tighten forward bolts to specified torque first, then tighten rear bolts to same torque. Be sure choke knob bracket is positioned as shown.

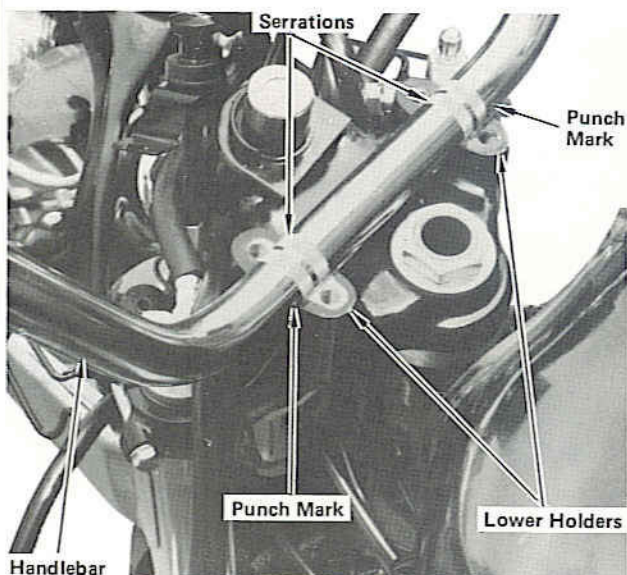
Torque specification:
3.0 kg-m (22 lb-ft)

1980, 1981 MODELS ONLY



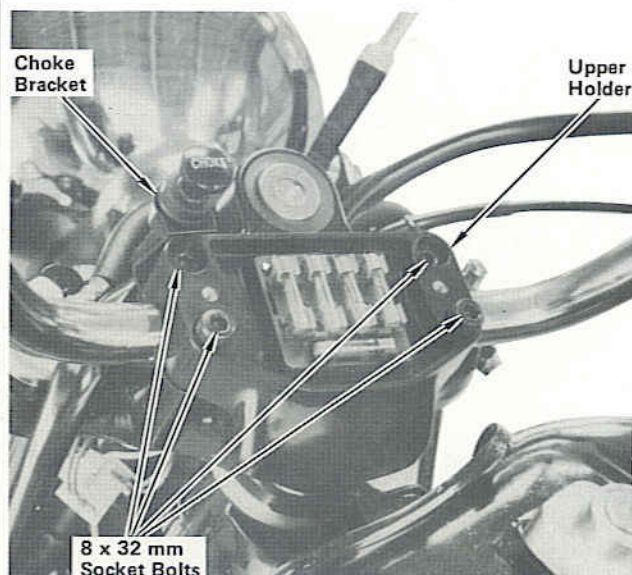
STEP 21—Install four caps in socket bolt recesses.

1982 MODEL ONLY



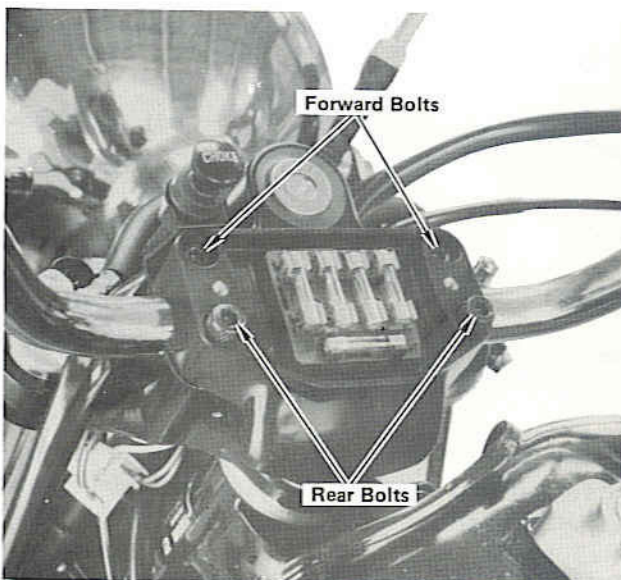
STEP 22—Raise handlebar upper holder and position handlebar on lower holders with serrations aligned with holders and punch mark on handlebar aligned with top of holders.

1982 MODEL ONLY



STEP 23—Position upper holder on handlebar as shown, with choke knob bracket between left lower holder and upper holder as shown. Attach upper holder loosely using four 8 x 32 mm socket bolts.

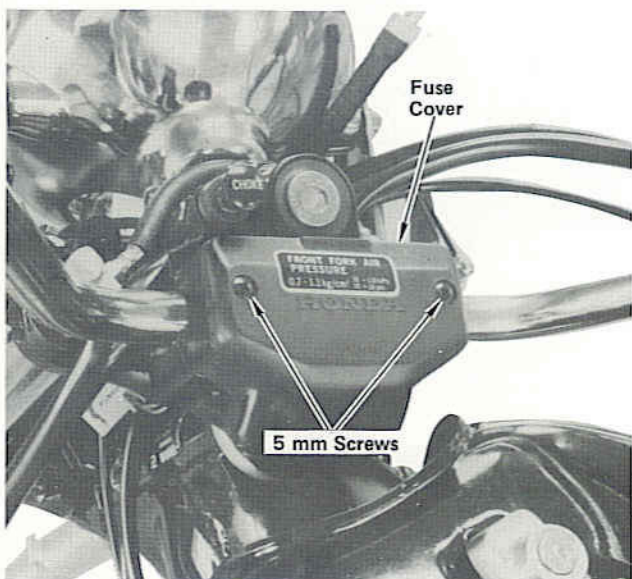
1982 MODEL ONLY



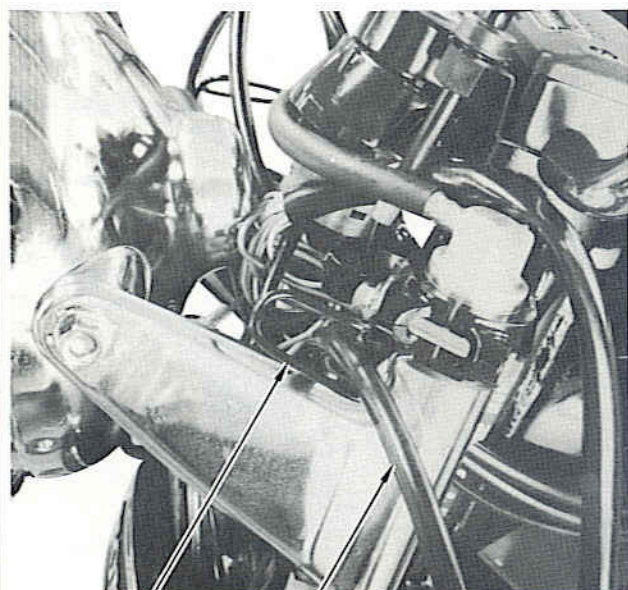
STEP 24—Tighten forward bolts to specified torque first, then tighten rear bolts to same torque. Be sure choke knob bracket is positioned as shown.

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

1982 MODEL ONLY

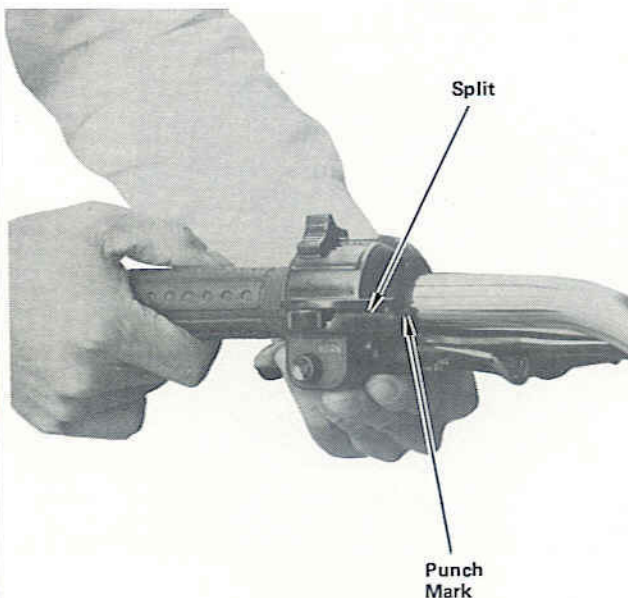


STEP 25—Install fuse cover using two 5 mm screws. Tighten screws securely.



Cable Guide
Clutch Cable

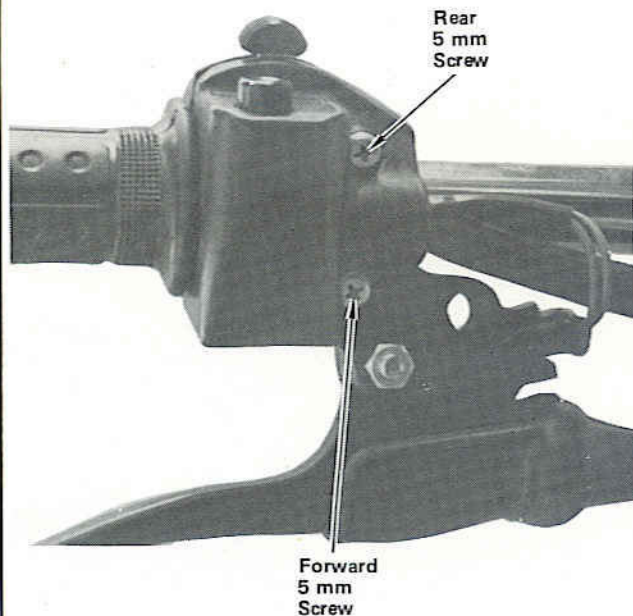
STEP 26—Route clutch cable into cable guide on upper fork bridge as shown.



Split

Punch Mark

STEP 27—Position left switch assembly on handlebar and align split in switch housing with punch mark on handlebar.



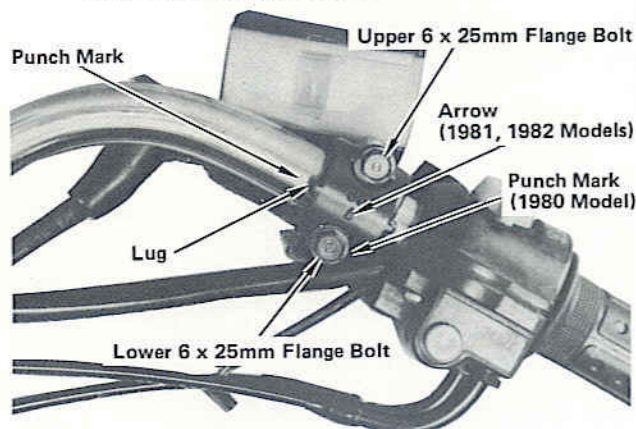
Rear
5 mm
Screw

Forward
5 mm
Screw

STEP 28—Install left switch assembly using two 5 mm screws. Tighten forward screw to specified torque first, then tighten rear screw to same torque.

Torque specifications:
0.5 kg-m (4 lb-ft)

1982 SHOWN; 1980, 1981 SIMILAR



Punch Mark

Upper 6 x 25mm Flange Bolt

Arrow
(1981, 1982 Models)

Punch Mark
(1980 Model)

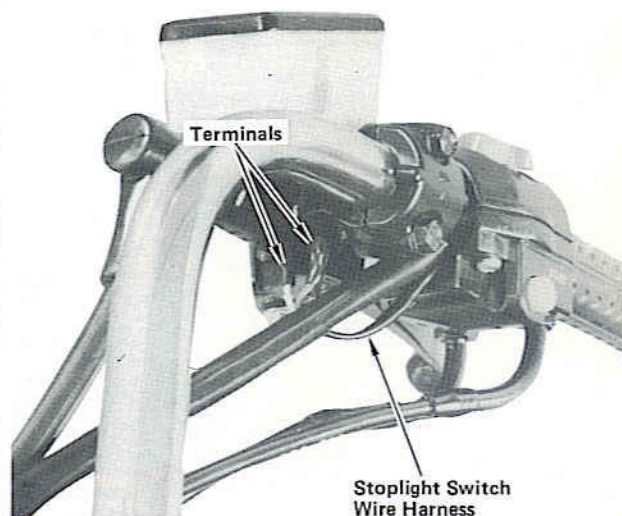
Lug

Lower 6 x 25mm Flange Bolt

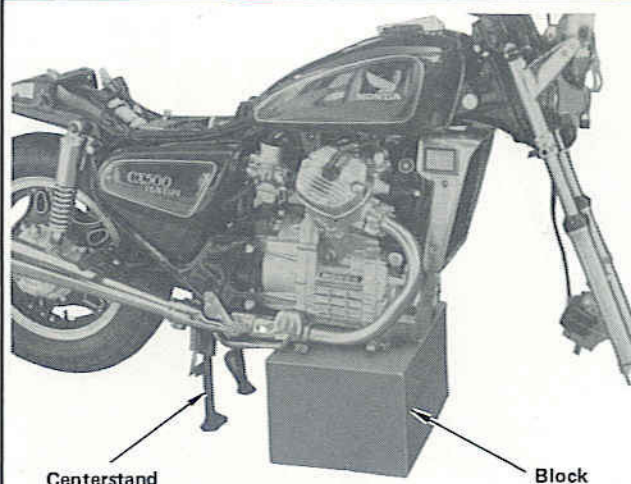
STEP 29—Position master cylinder and holder on handlebar with punch mark on holder down (1980), or arrow pointing up (1981, 1982). Install holder using two 6 x 25mm flange bolts. Position master cylinder so lug of holder is aligned with punch mark on handlebar. Tighten upper bolt to specified torque first, then tighten lower bolt to same torque.

Torque specifications:
1.2 kg-m (9 lb-ft)

CAUTION: Be sure wire harness is not pinched.



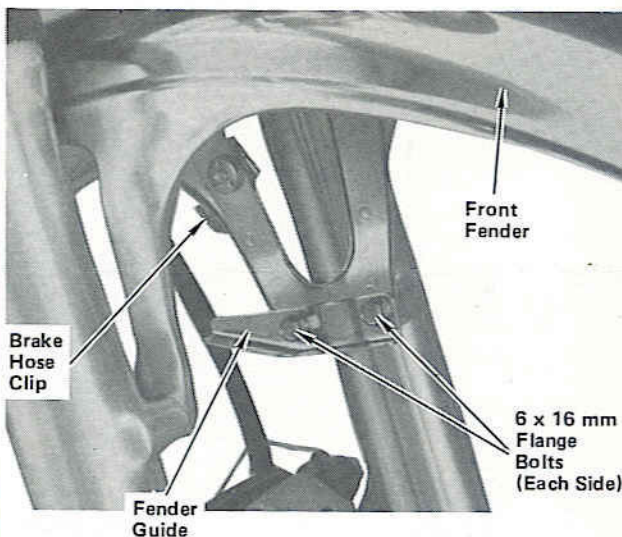
STEP 30—Connect front brake stoplight switch wires to terminals on switch.



STEP 31—Remove motorcycle from crate base and support on centerstand and a padded block centered under engine.

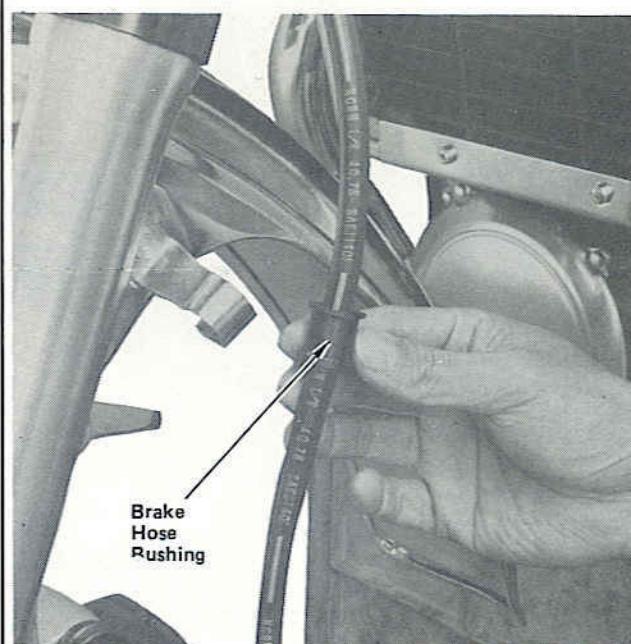
WARNING

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

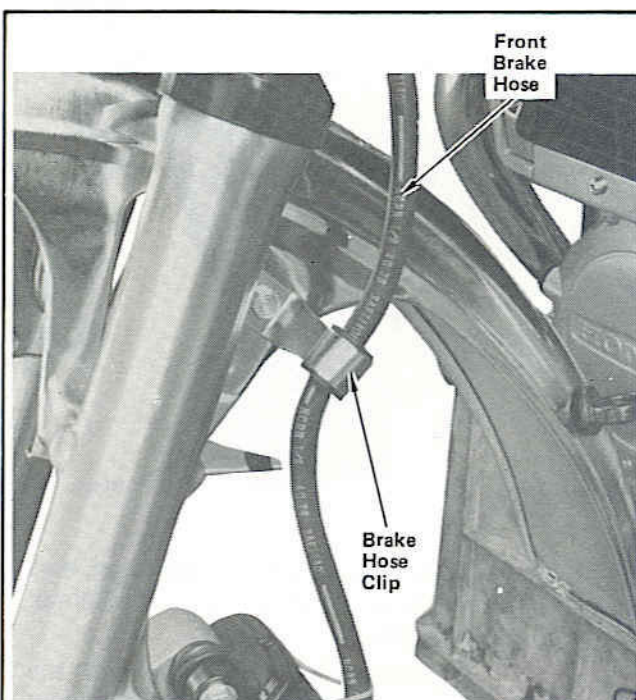


STEP 32—Insert front fender, with brake hose clip on left, between fork legs from the rear. Install fender, with front fender guide on the left as shown, using four 6 x 16 mm flange bolts. Tighten bolts to specified torque.

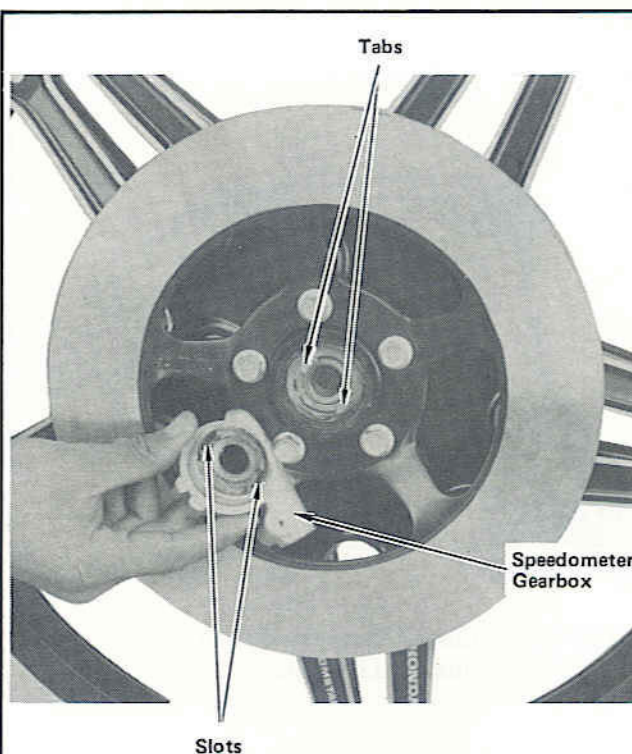
Torque specifications:
1.2 kg-m (9 lb-ft)



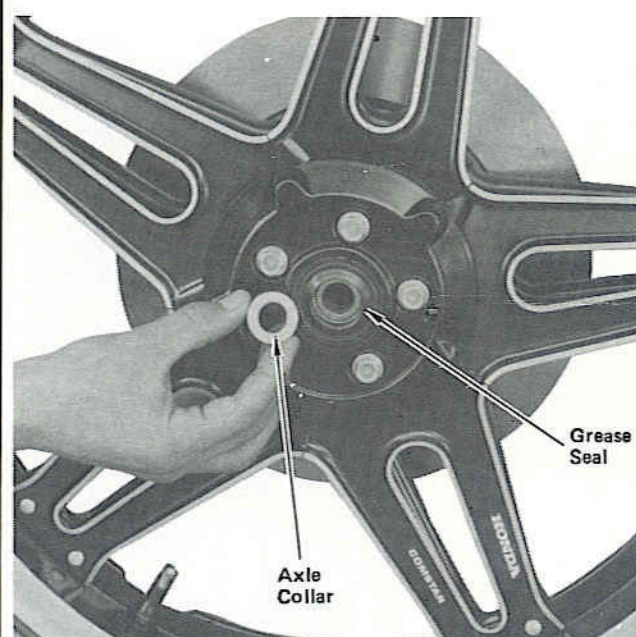
STEP 33—Install brake hose rubber bushing on front brake hose where shown.



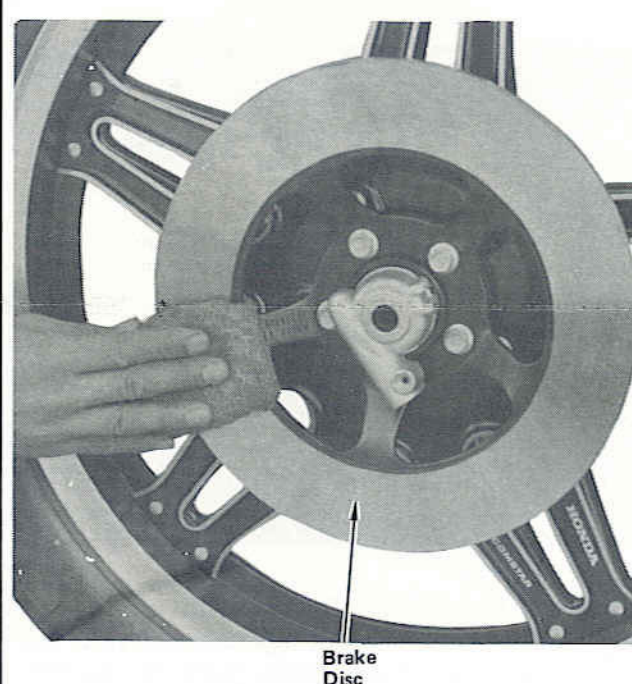
STEP 34—Insert brake hose into brake hose clip and squeeze clip slightly to retain hose.



STEP 35—Install speedometer gearbox, making sure slots are aligned with tabs in wheel hub.

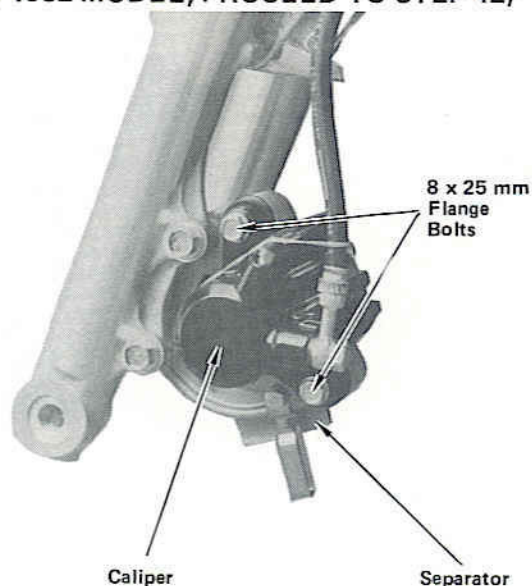


STEP 36—Remove sponge dust seal from front wheel hub. Check that grease seal is clean and filled with grease. Insert axle collar into grease seal of front wheel hub.



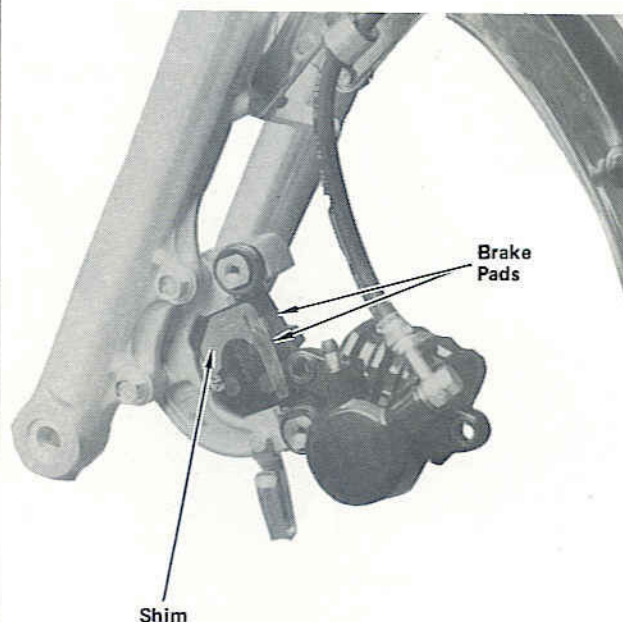
STEP 37—Thoroughly clean both sides of front brake disc using a good quality degreasing agent. Wipe with a clean cloth.

1980, 1981 MODELS ONLY
(FOR 1982 MODEL, PROCEED TO STEP 42)



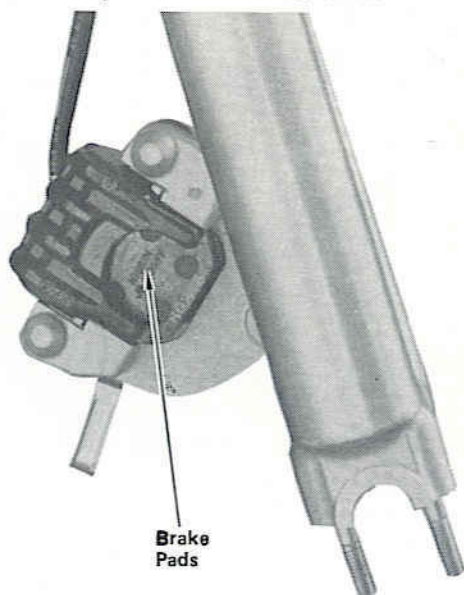
STEP 38—Remove separator from between brake pads. Remove front brake caliper by removing two 8 x 25 mm caliper setting flange bolts.

1980, 1981 MODELS ONLY



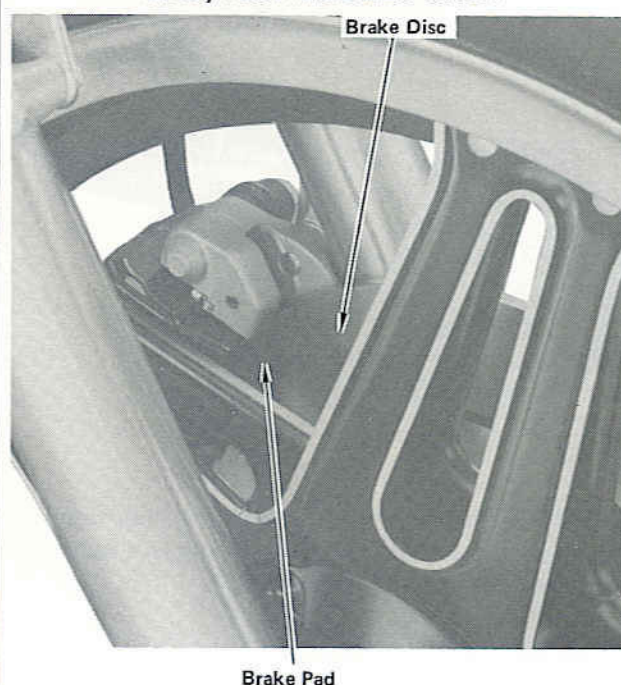
STEP 39—Note position of shim behind brake pad and remove both brake pads. Scrape off all preservative and residue from each brake pad.

1980, 1981 MODELS ONLY



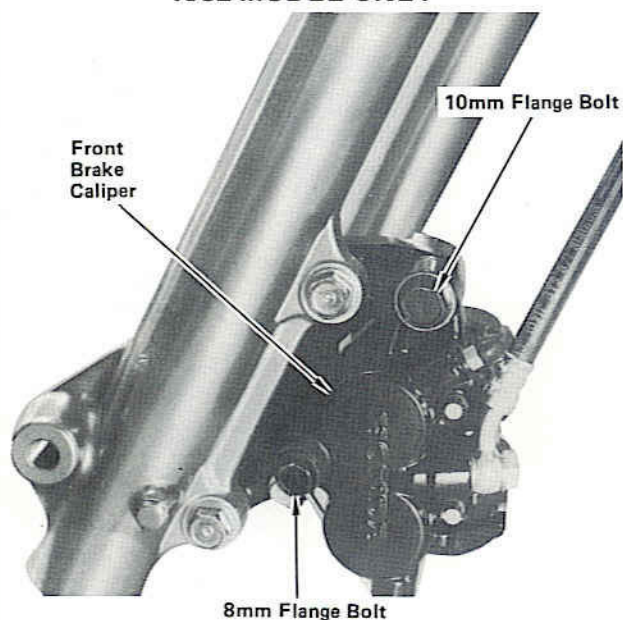
STEP 40—Reassemble caliper using 8 x 25 mm flange bolts removed in Step 38 and tighten bolts to specified torque.

1980, 1981 MODELS ONLY



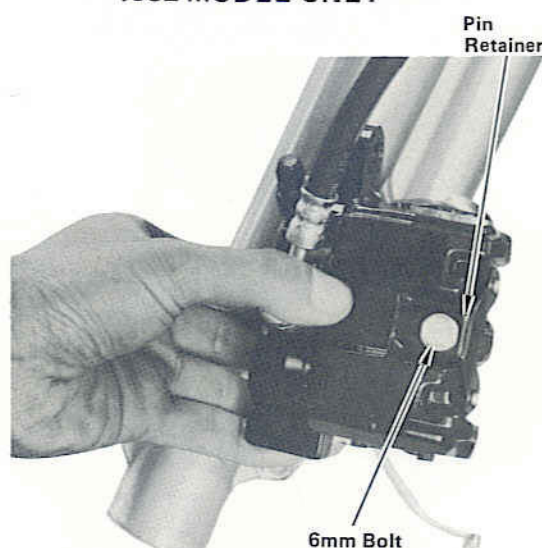
STEP 41—Position front wheel between fork legs, being careful to fit brake disc between brake pads.

1982 MODEL ONLY



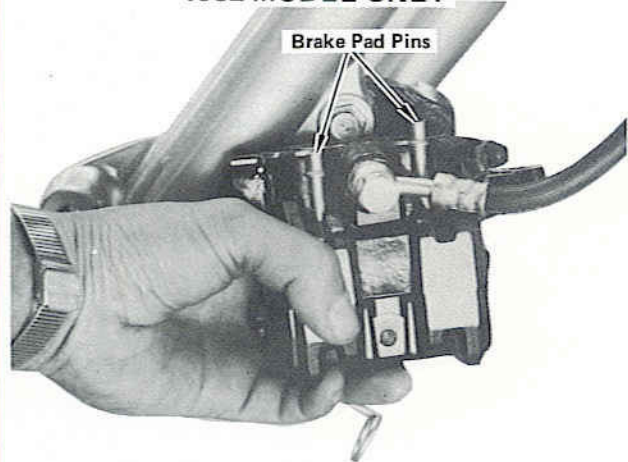
STEP 42—Remove separator from between brake pads by removing rubber band. Remove front brake caliper by removing 10mm and 8mm flange bolts.

1982 MODEL ONLY



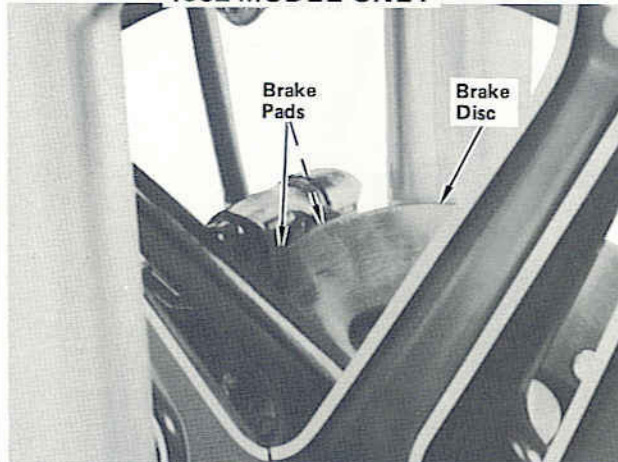
STEP 43—Remove 6 mm pin retainer bolt and remove brake pad pin retainer.

1982 MODEL ONLY



STEP 44—Pull out brake pad pins and remove brake pads. Scrape off all preservative and residue from each brake pad.

1982 MODEL ONLY



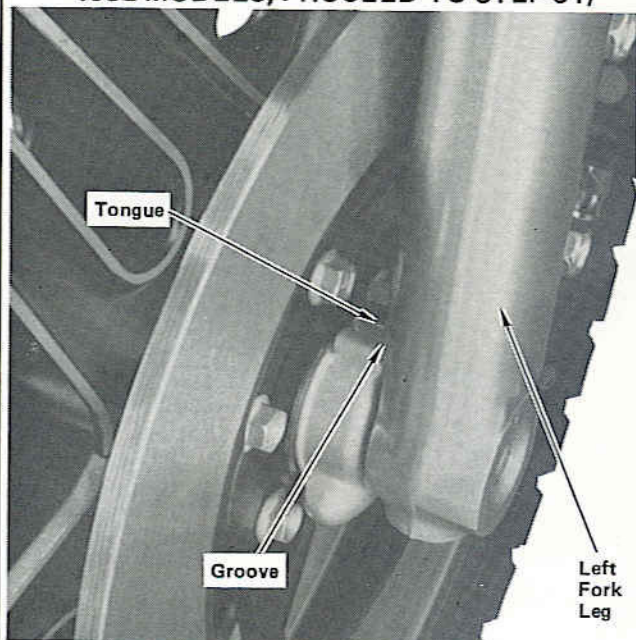
STEP 45—Reinstall brake pads, brake pad pins, and pin retainer, being sure to tighten pin retainer bolt securely. Reinstall caliper using 10mm and 8mm flange bolts removed in Step 42. Tighten caliper bolts to specified torque. Position front wheel between fork legs, being careful to fit brake disc between brake pads.

Torque specifications:

10mm bolt: 2.8 kg-m (21 lb-ft)

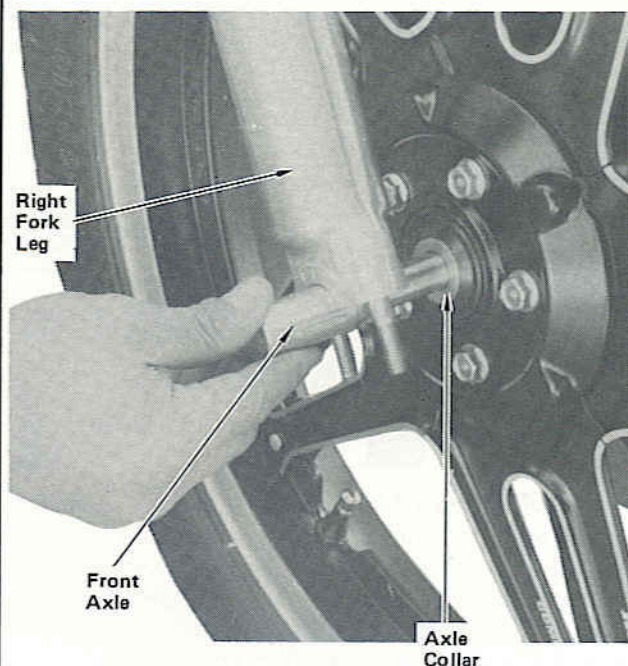
8mm bolt: 2.3 kg-m (17 lb-ft)

1980 MODEL ONLY (FOR 1981,
1982 MODELS, PROCEED TO STEP 51)



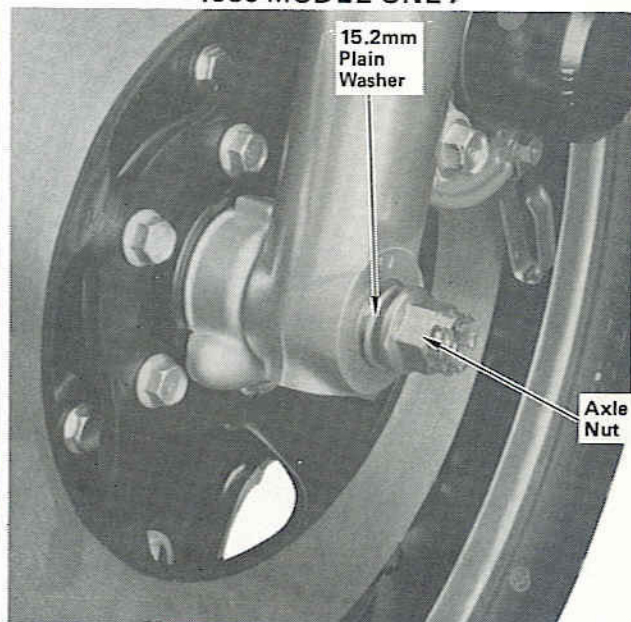
STEP 46—Position speedometer gearbox so that groove in gearbox is aligned with tongue on left fork leg.

1980 MODEL ONLY



STEP 47—Insert front axle from right side through axle collar, wheel hub, speedometer gearbox, and left fork leg.

1980 MODEL ONLY

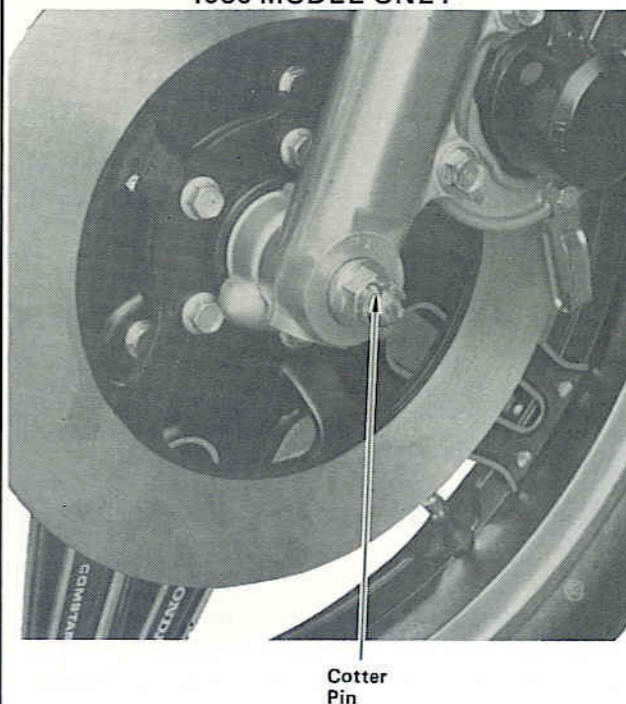


STEP 48—Install a 15.2 mm plain washer and axle nut on axle. Tighten axle nut to specified torque.

Torque specifications:

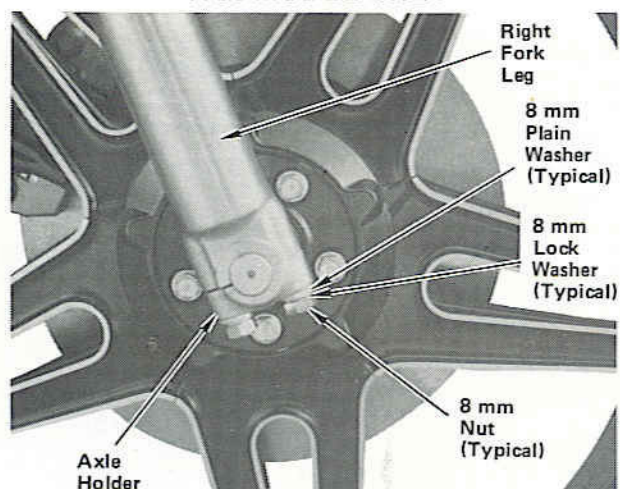
6.5 kg-m (47 lb-ft)

1980 MODEL ONLY



STEP 49—Insert cotter pin and spread ends as shown. Remove block from under engine.

1980 MODEL ONLY

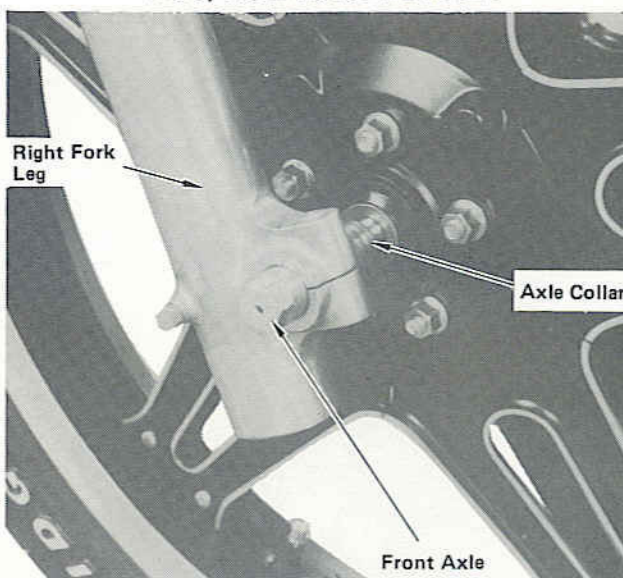


STEP 50—Install axle holder on right fork leg with high mating surface forward ("F" mark pointing forward), using an 8 mm nut, lock washer, and plain washer on each stud. Tighten finger-tight. To prevent misalignment, tighten forward axle holder nut to specified torque first, then tighten rear nut to same torque.

Torque specifications:

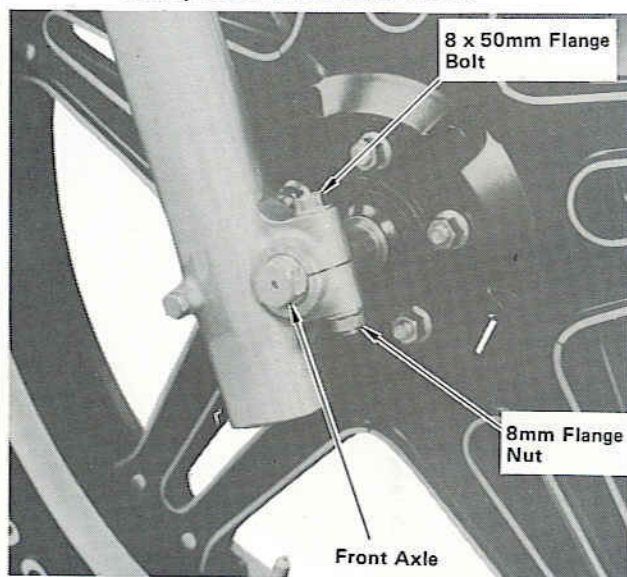
2.1 kg-m (16 lb-ft)

1981, 1982 MODELS ONLY



STEP 51—Insert front axle through right fork leg, axle collar, wheel hub, speedometer gear-box, and left fork leg. Screw axle into left fork leg. Make sure opening in speedometer gear-box for cable is facing to the rear and perpendicular to the left fork leg.

1981, 1982 MODELS ONLY

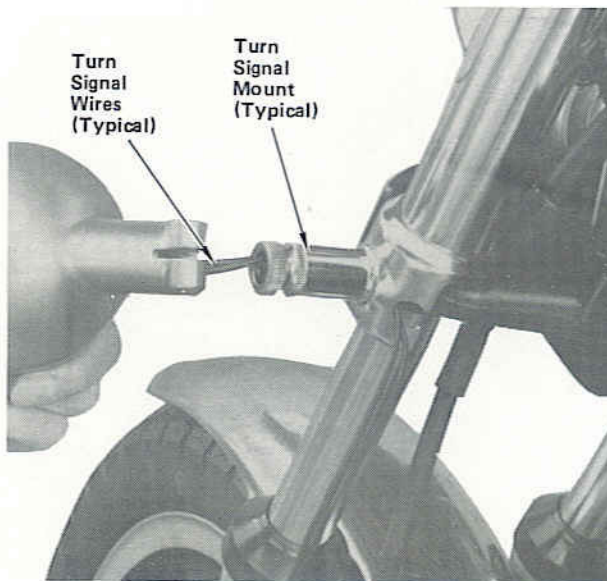


STEP 52—Tighten front axle to specified torque. Install an 8 x 50 mm axle holding bolt and flange nut and tighten nut to specified torque.

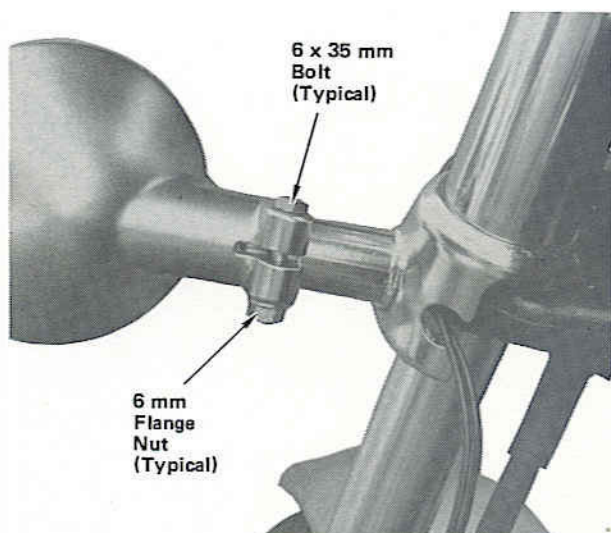
Torque specifications:

Front axle: 6.0 kg-m (44 lb-ft)

Axle holding nut: 2.0 kg-m (15 lb-ft)



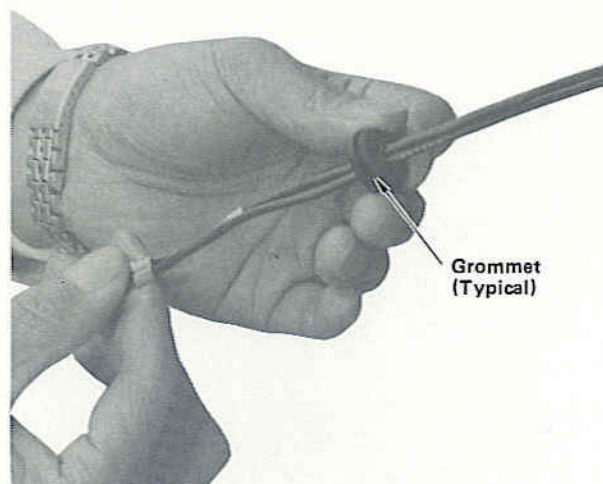
STEP 53—Route front turn signal wires through turn signal mounts (orange band for left side and light blue band for right side).



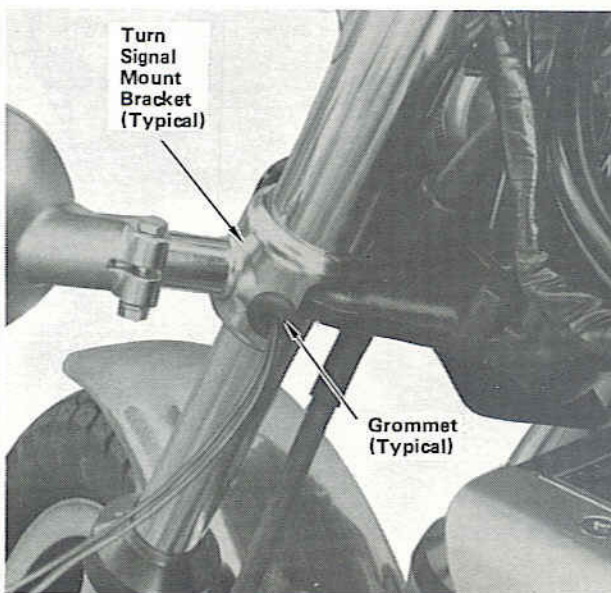
STEP 54—Position front turn signals on turn signal mounts so beams will be horizontal. Install turn signals using a 6 x 35 mm bolt and flange nut for each. Tighten nuts to specified torque.

Torque specifications:

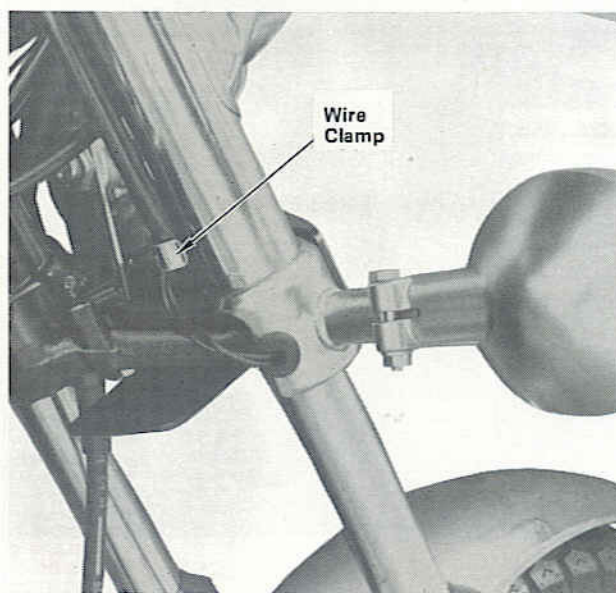
1.2 kg-m (9 lb-ft)



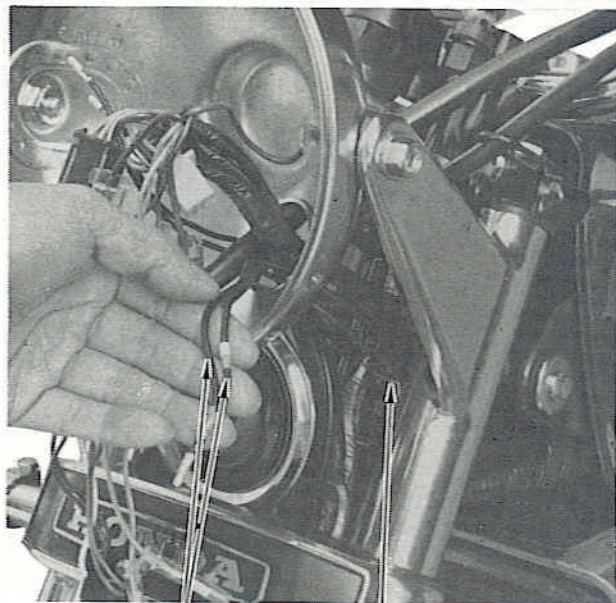
STEP 55—Route turn signal wires through wire grommets as shown.



STEP 56—Insert grommets into holes in turn signal mount brackets.



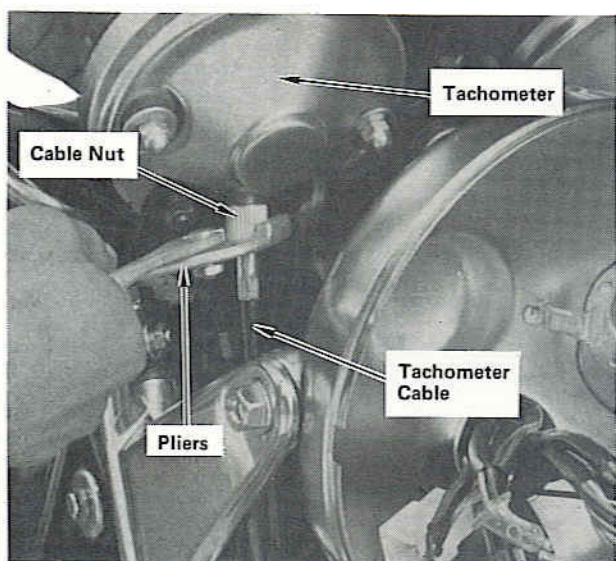
STEP 57—Route right turn signal wires through wire clamp on front fork cover as shown.

Turn
Signal
WiresWire
Clamp

STEP 58—Route left turn signal wires through wire clamp under wire harness and both right and left turn signal wires into headlight case as shown.



STEP 59—Route instrument and indicator light wires down into headlight case as shown.



Cable Nut

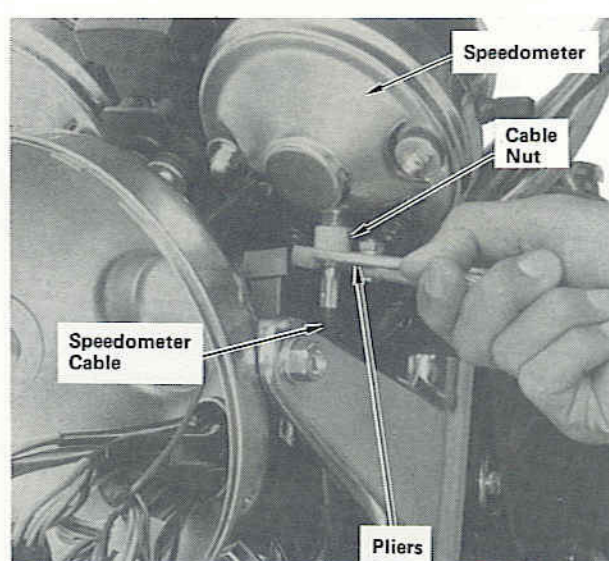
Tachometer

Tachometer
Cable

Pliers

STEP 60—Route tachometer cable up between headlight case and headlight case bracket. Connect tachometer cable to tachometer and tighten cable nut with pliers so it cannot be loosened with fingers.

CAUTION: Do not overtighten cable nut.



Speedometer

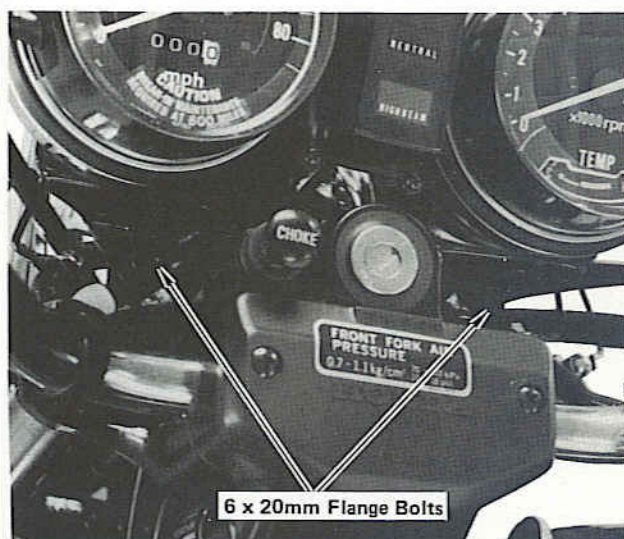
Cable Nut

Speedometer
Cable

Pliers

STEP 61—Route speedometer cable down between headlight case and headlight case bracket. Connect speedometer cable to speedometer and tighten cable nut with pliers so it cannot be loosened with fingers.

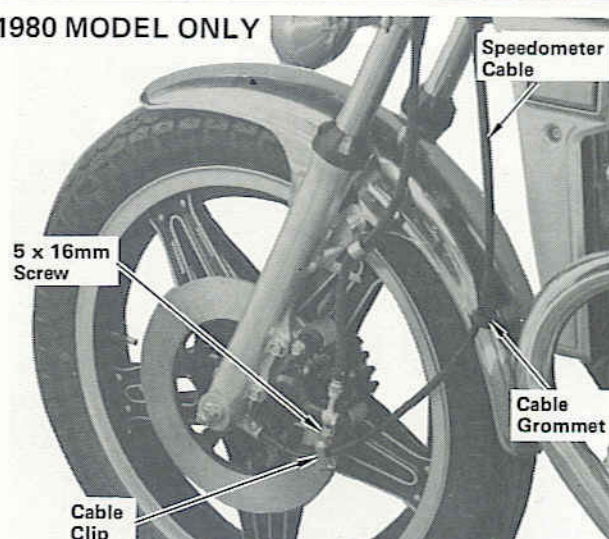
CAUTION: Do not overtighten cable nut.



STEP 62—Position speedometer/tachometer assembly on upper fork bridge as shown and install using two 6 x 20 mm flange bolts. Tighten bolts to specified torque.

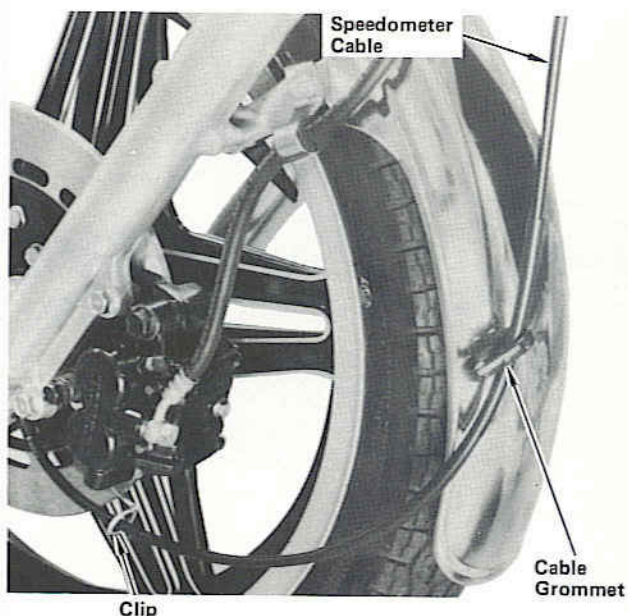
Torque specifications:
1.2 kg-m (9 lb-ft)

1980 MODEL ONLY



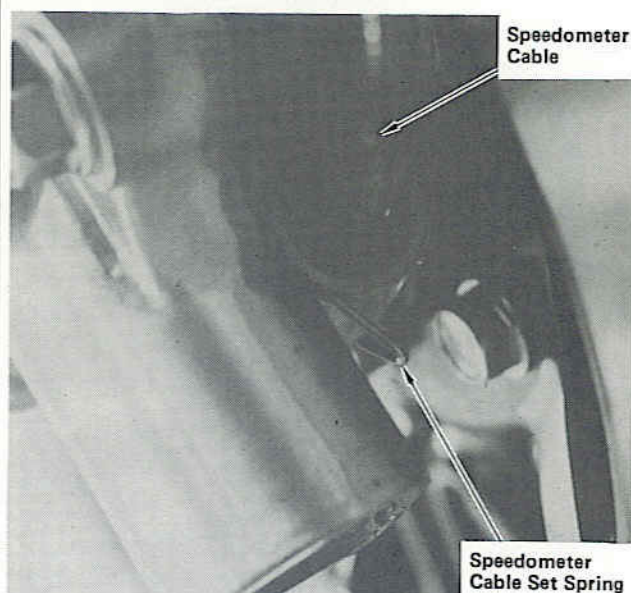
STEP 63—Route speedometer cable down through cable grommet on fender and cable clip on brake caliper. Insert speedometer cable into speedometer gearbox, being sure to align blade in gearbox with slot in cable. Secure speedometer cable using a 5 x 16mm oval head screw. Tighten screw securely. Be sure speedometer cable makes a smooth curve without any sharp bends.

1981, 1982 MODELS ONLY

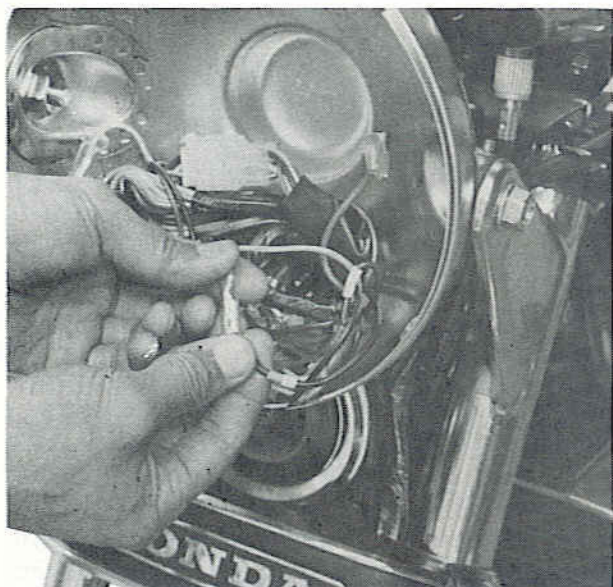


STEP 64—Route speedometer cable down through cable grommet on fender and cable clip on brake caliper.

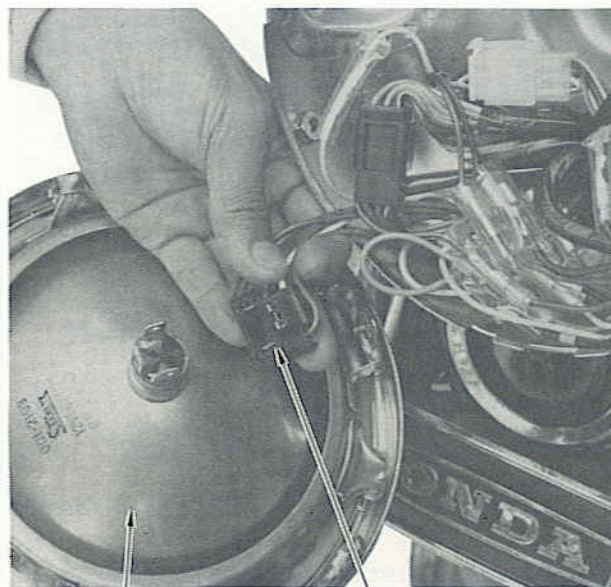
1981, 1982 MODELS ONLY



STEP 65—Expand set spring and insert speedometer cable into speedometer gearbox, aligning slot in cable with blade in gearbox. Be sure speedometer cable makes a smooth curve without any sharp bends.



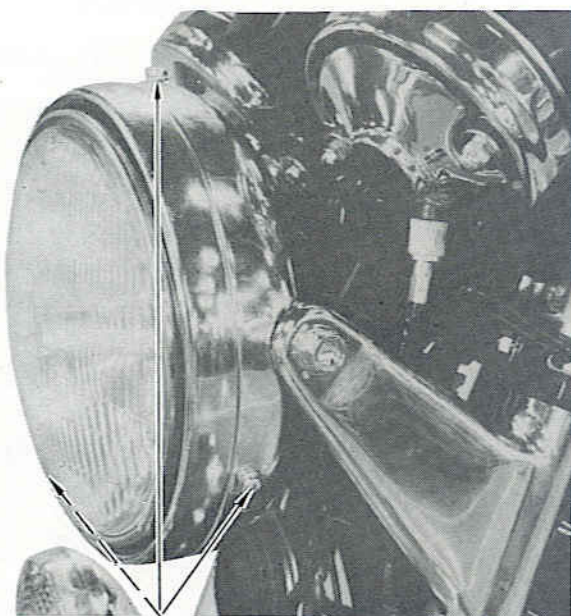
STEP 66—Connect all wires and connectors in headlight case to wire harness color-to-color.



Headlight

Headlight
Receptacle

STEP 67—Connect headlight receptacle to headlight.



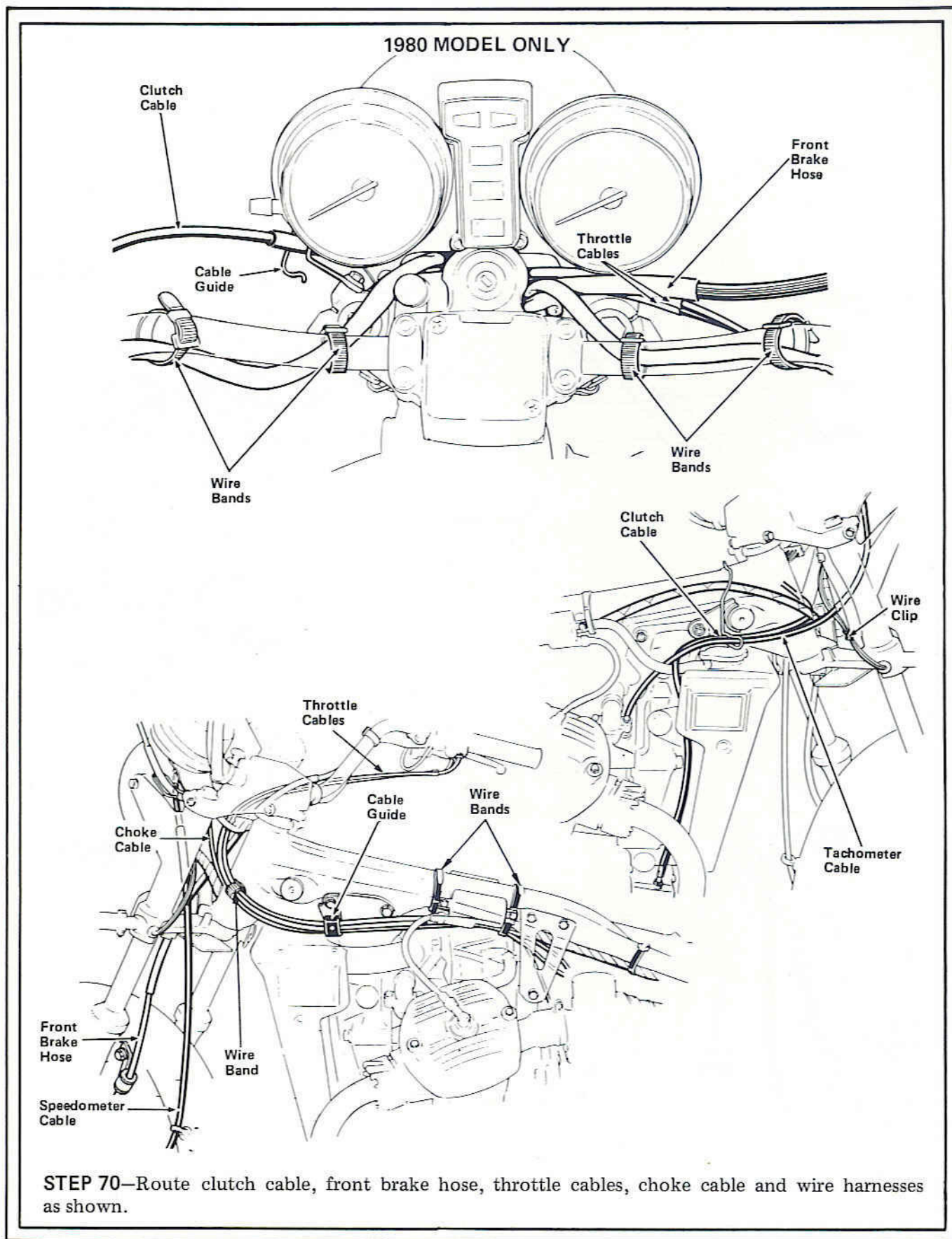
5 x 16mm Screws and
Lock Washers

STEP 68—Install headlight using three 5 x 16 mm pan head screws and 5mm lock washers. Tighten screws securely.

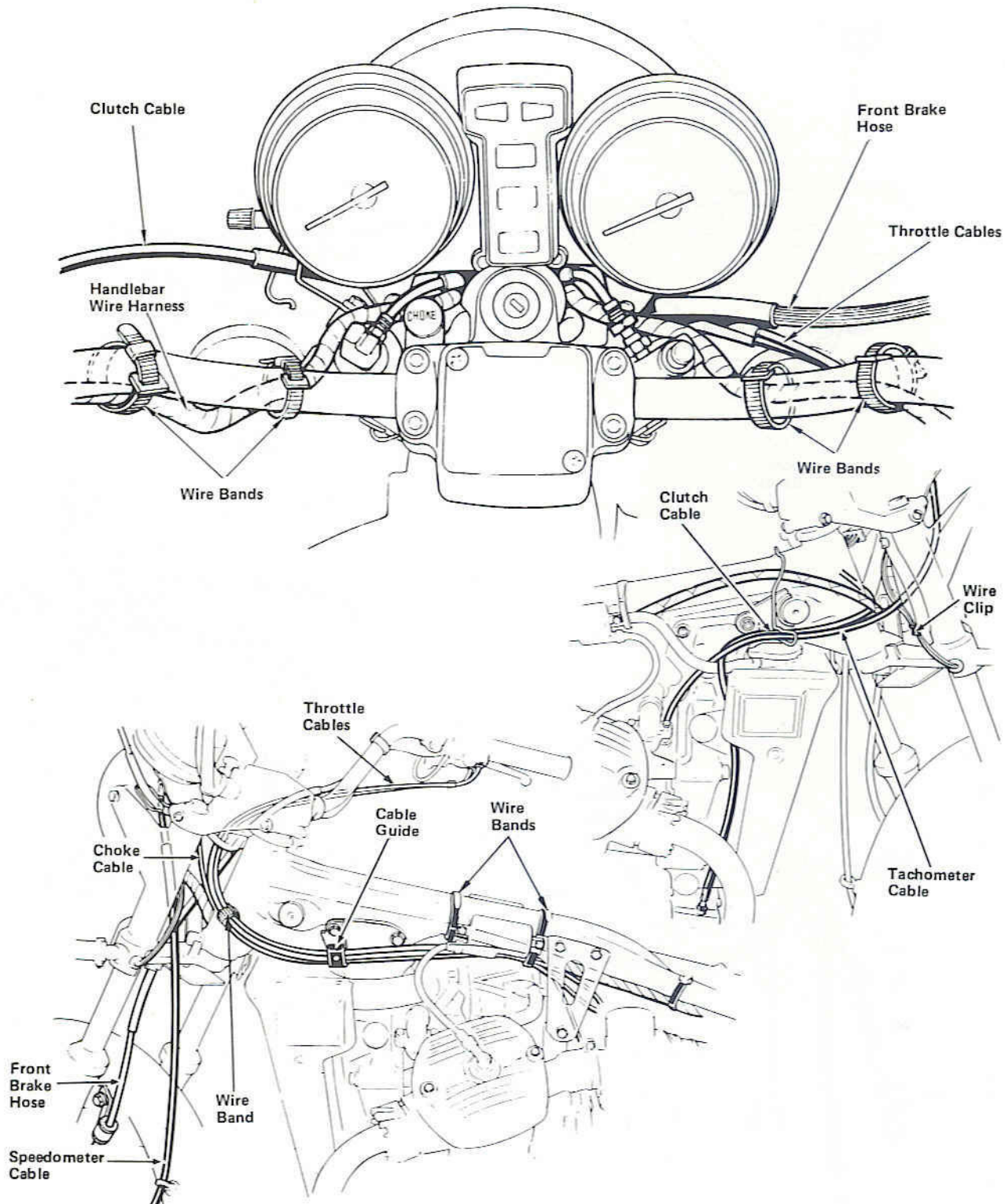


Wire
Bands

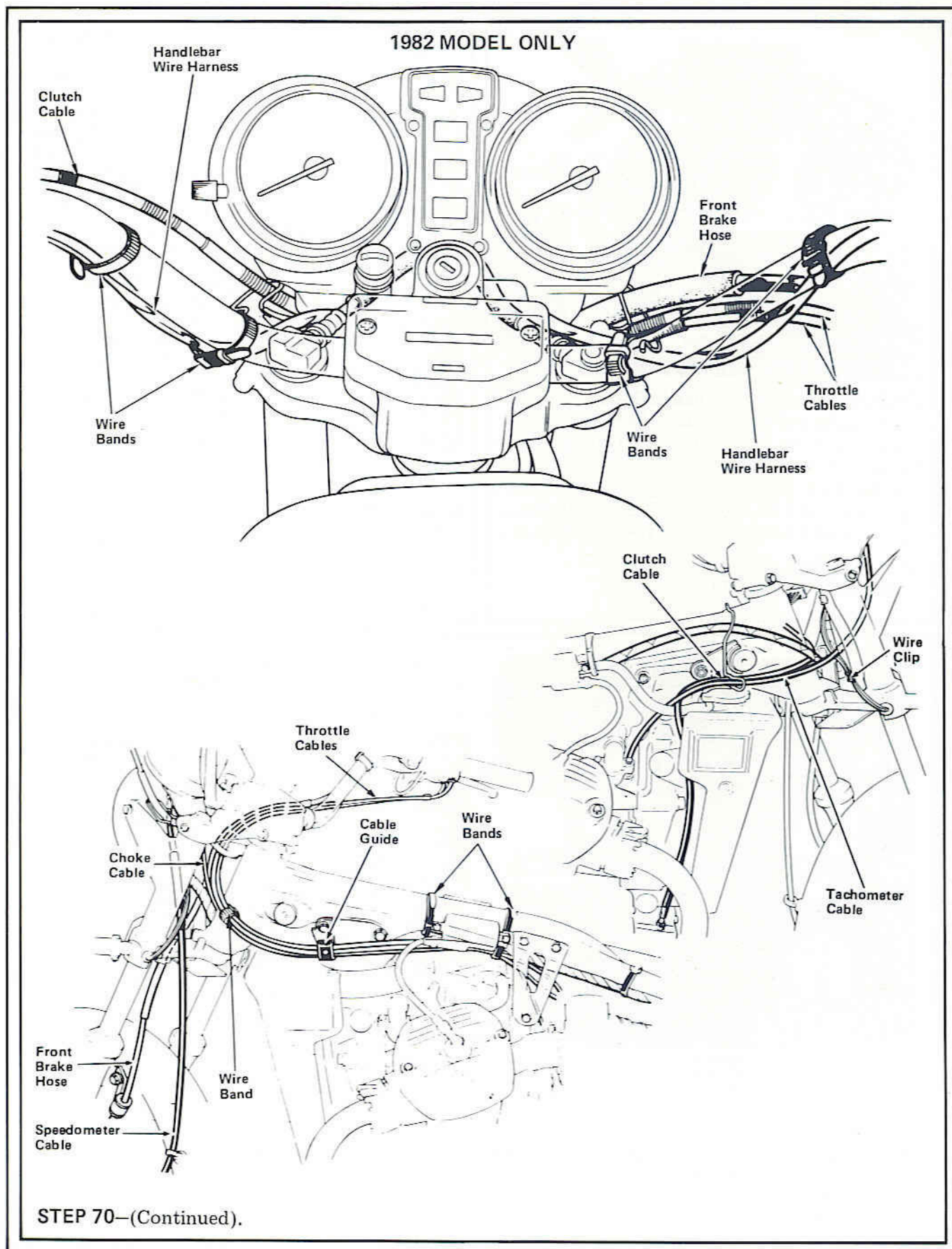
STEP 69—Strap right and left handlebar switch wires to handlebar using four wire bands positioned where shown.

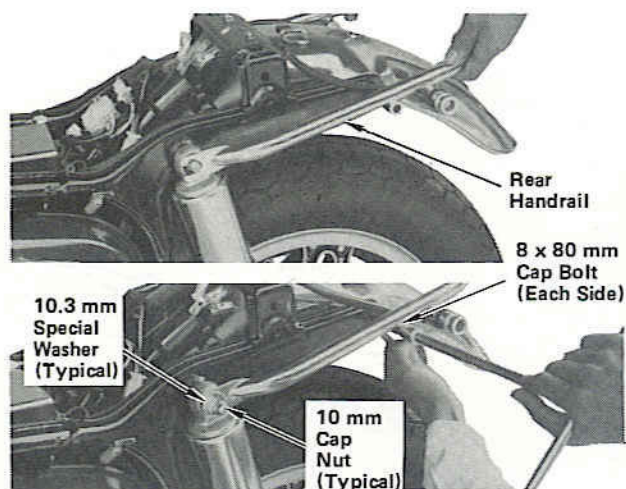


1981 MODEL ONLY



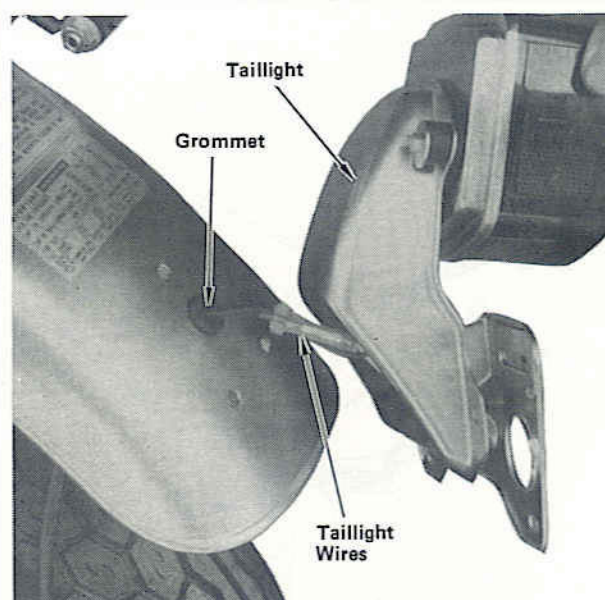
STEP 70—(Continued).



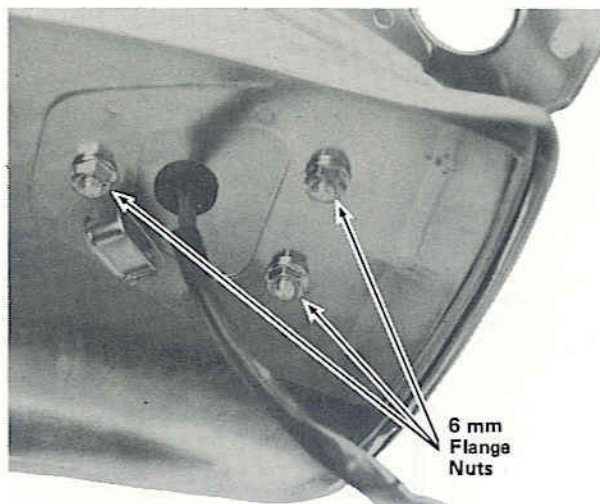
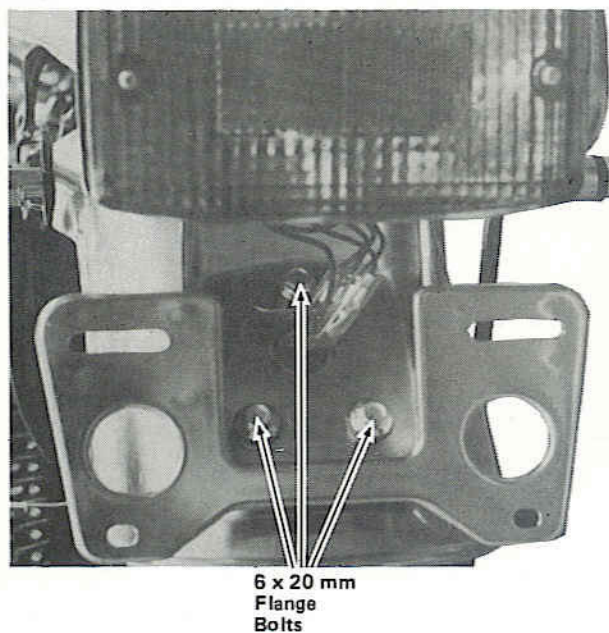


STEP 71—Position rear handrail on rear shock mount bolts and install using 10mm cap nut (removed in Step 12) with a 10.3mm special washer on each upper shock mount. Install rear handrail on frame using 8 x 80mm cap bolts (removed in Step 12). Tighten all 10mm cap nuts and 8mm bolts to specified torques.

Torque specifications:
 8 mm bolt: 2.1 kg-m (16 lb-ft)
 10 mm nut: 3.5 kg-m (26 lb-ft)

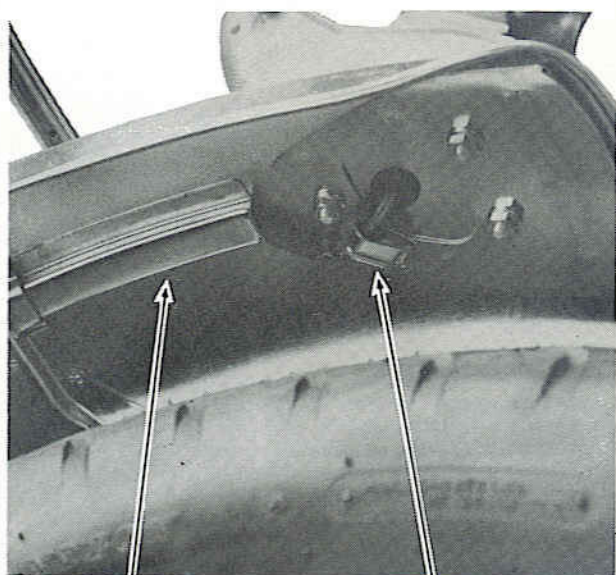


STEP 72—Route taillight wires down through fender rear grommet.



STEP 73—Install taillight assembly using three 6 x 20 mm flange bolts and 6 mm flange nuts. Tighten bolts to specified torque.

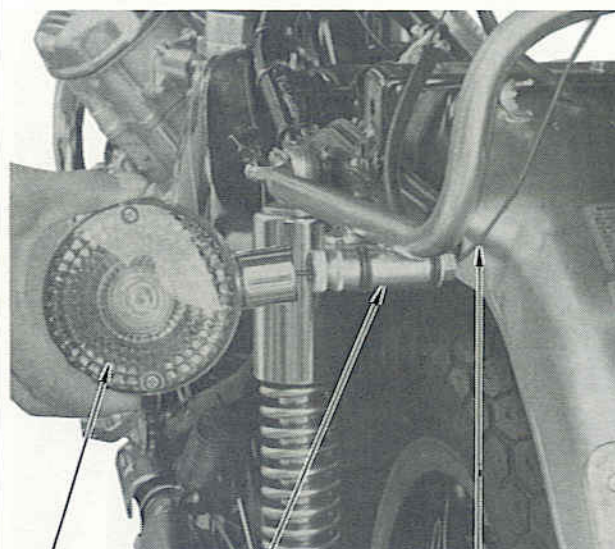
Torque specifications:
 1.2 kg-m (9 lb-ft)



Wire Tunnel

Wire Clip

STEP 74—Route taillight wires forward through wire tunnel, up through forward grommet, and forward under frame cross member. Insert wires in wire clip and squeeze clip to hold wires.

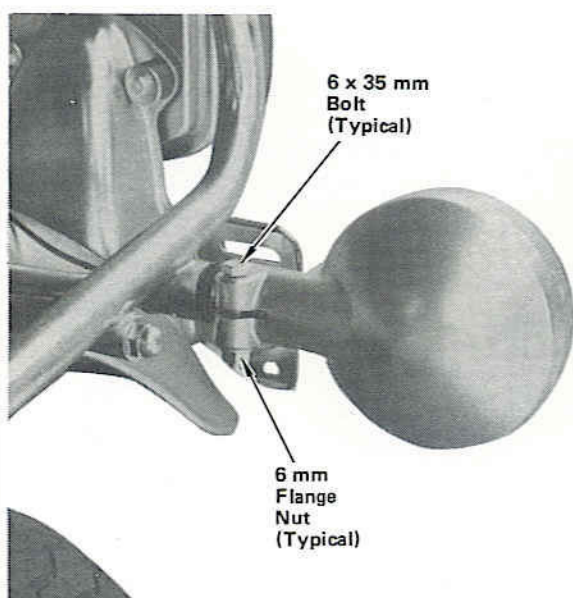


Rear Turn Signal (Each Side)

Turn Signal Mount (Each Side)

Turn Signal Wire (Typical)

STEP 75—Route rear turn signal wires (orange band for left side and light blue band for right side) through turn signal mounts.

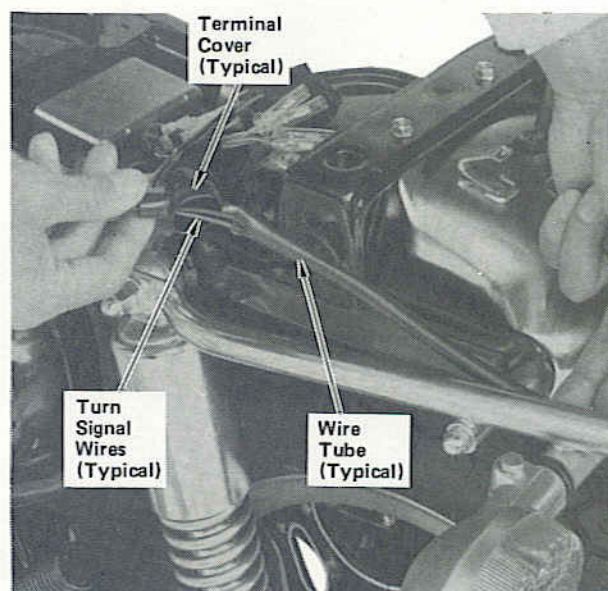


6 x 35 mm Bolt (Typical)

6 mm Flange Nut (Typical)

STEP 76—Install turn signals on turn signal mounts using a 6 x 35 mm bolt and flange nut for each. Align signals so beams will be horizontal and tighten nuts to specified torque.

Torque specifications:
1.2 kg-m (9 lb-ft)

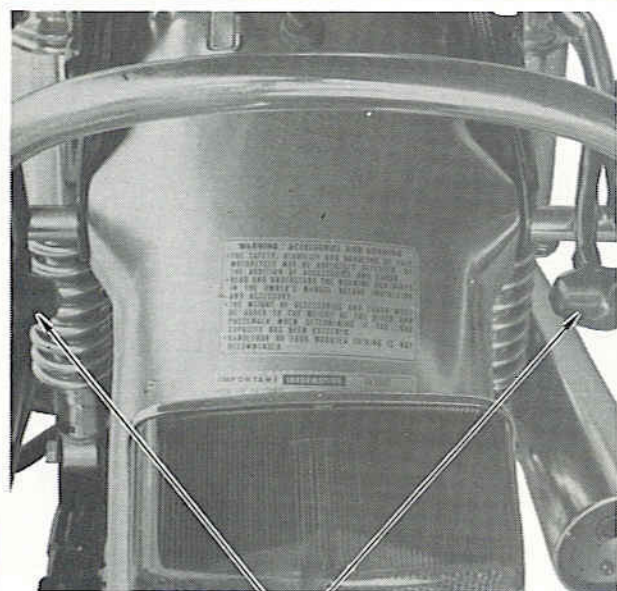


Terminal Cover (Typical)

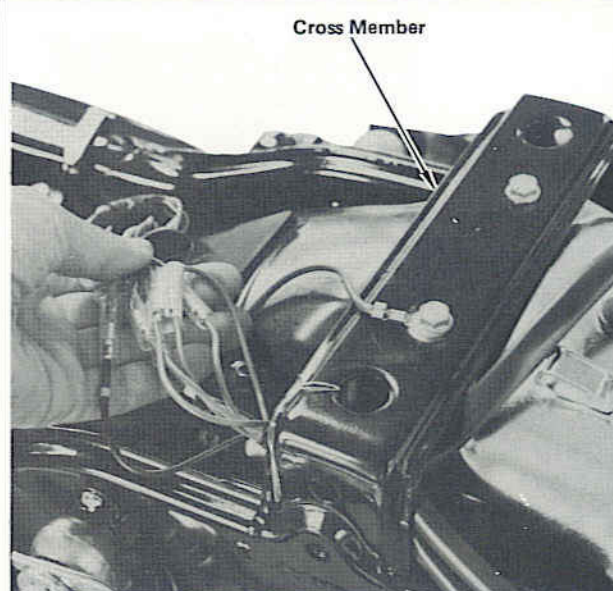
Turn Signal Wires (Typical)

Wire Tube (Typical)

STEP 77—Route each turn signal wire forward through the respective wire tube of the ground wires. Route wires through terminal covers as shown.

Terminal
Covers

STEP 78—Slip terminal covers over wire tubes and over end of each turn signal mount as shown.

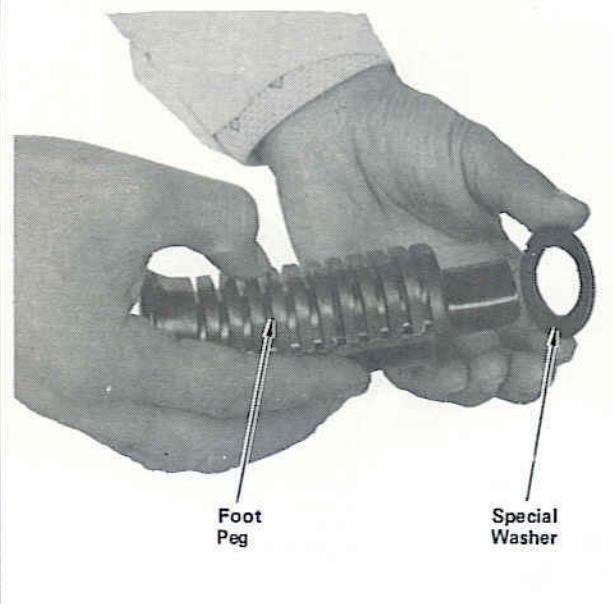


Cross Member

STEP 79—Route turn signal wires forward under frame cross member, and connect turn signal and taillight wires to wire harness color-to-color.

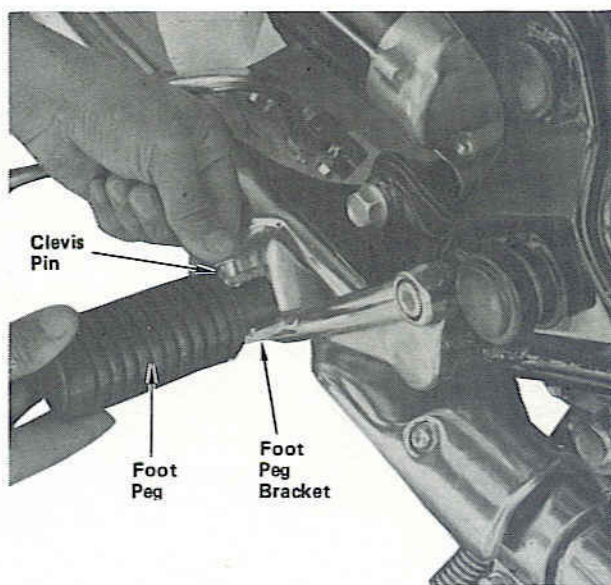
Wire
ClampWire
ClampConnector
Cover

STEP 80—Slip connector cover over connections and secure connector cover and wire harness to rear fender with two wire clamps as shown.

Foot
PegSpecial
Washer

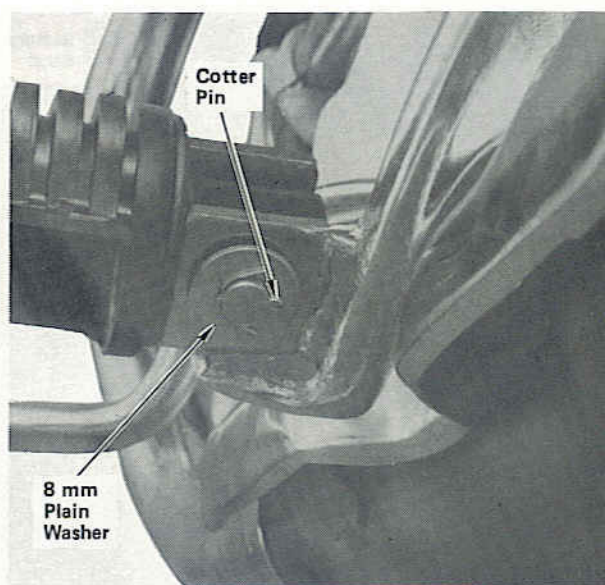
LEFT SHOWN, RIGHT SIMILAR

STEP 81—Place special plain washer over each foot peg with smooth side towards foot peg rubber.



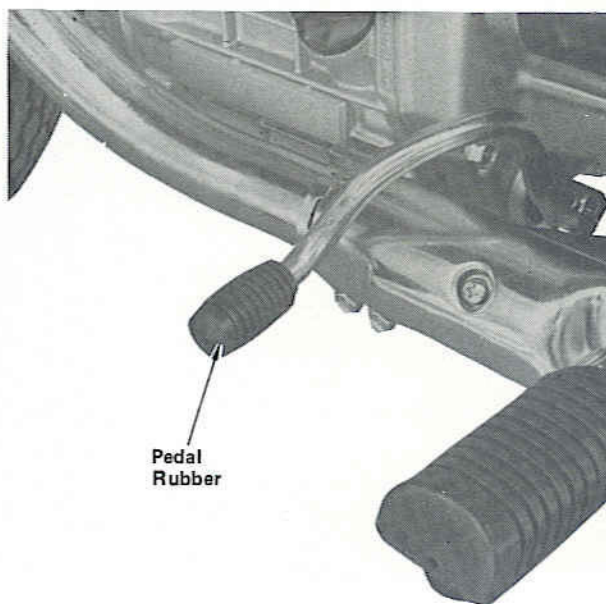
LEFT SHOWN, RIGHT SIMILAR

STEP 82—Install each foot peg in bracket as shown and insert clevis pin down through bracket and foot peg.



LEFT SHOWN, RIGHT SIMILAR

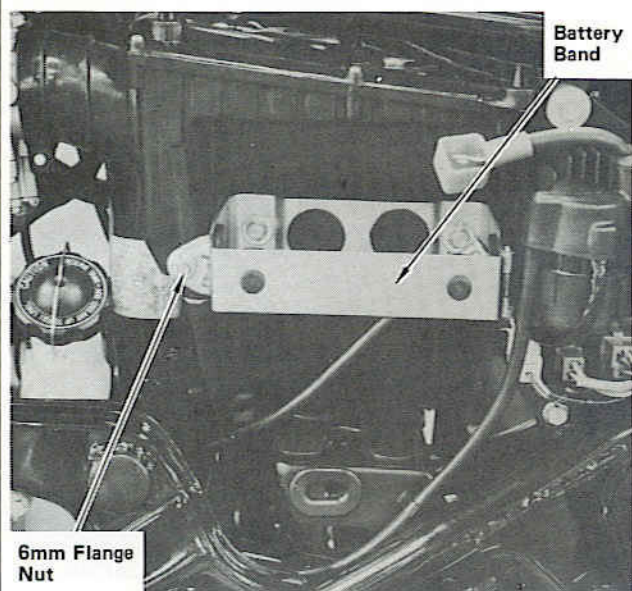
STEP 83—Install an 8 mm plain washer over end of each clevis pin and insert cotter pin. Spread ends of cotter pin as shown. Check operation of foot peg.



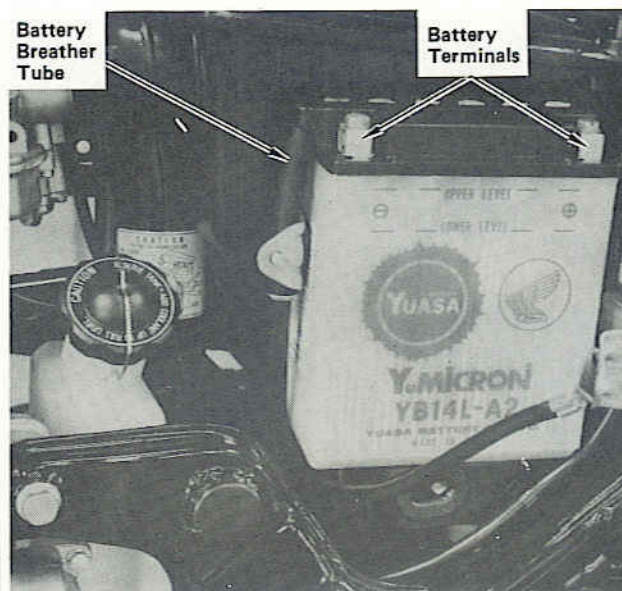
STEP 84—Install gearshift pedal rubber.



STEP 85—Remove left side cover.



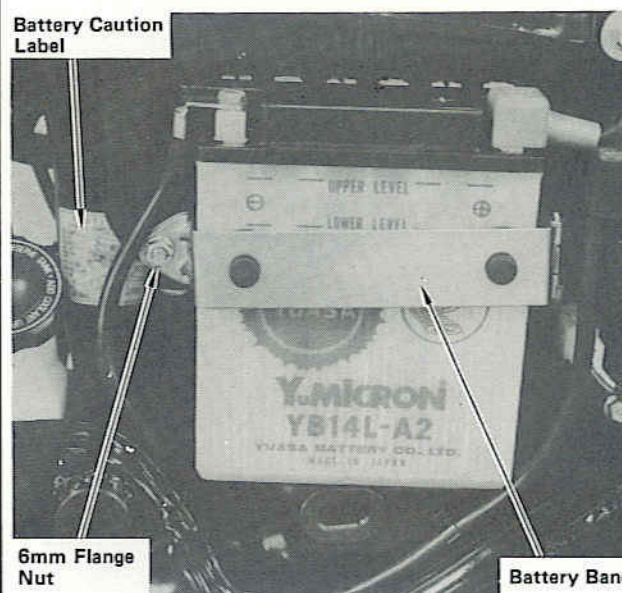
STEP 86—Remove and retain 6 mm flange nut holding battery band. Open battery band.



STEP 87—Check ignition switch OFF. Service battery as described in shop manual or battery preparation booklet packed with battery. Install battery in battery compartment with battery terminals facing out as shown. Attach battery breather tube.

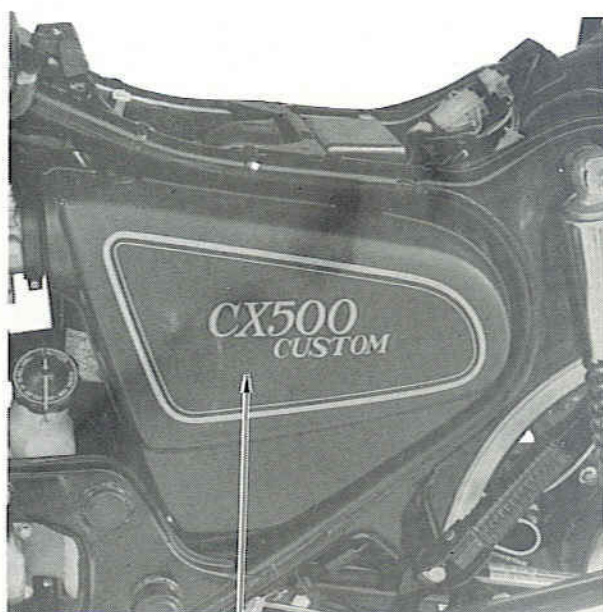


STEP 88—Connect positive (+) cable first, then connect negative (−) cable. Tighten securely and coat battery terminals with clean grease. Install terminal cover over positive (+) terminal as shown.



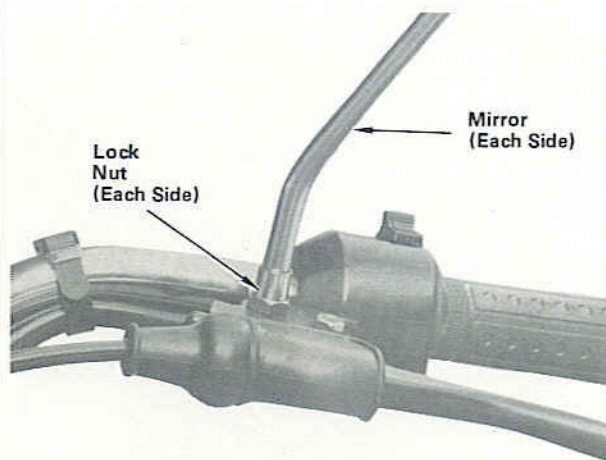
STEP 89—Reinstall battery band using 6 mm flange nut retained. Tighten securely. Check routing of battery breather tube as shown in battery caution label located on center frame.

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



Left
Side
Cover

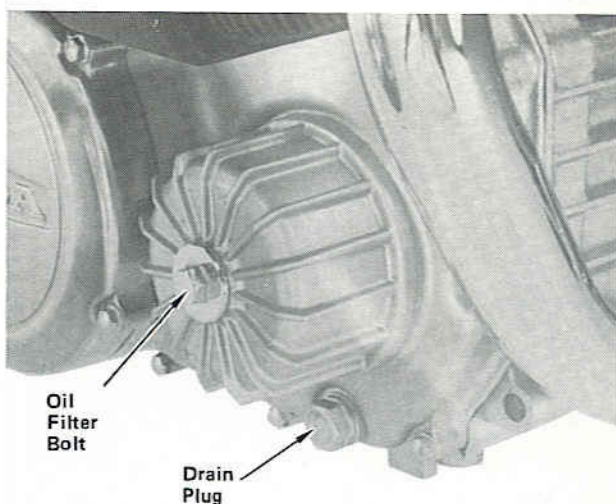
STEP 90—Reinstall left side cover.



Lock
Nut
(Each Side)

Mirror
(Each Side)

STEP 91—Install rear view mirrors. Adjust prior to delivery.

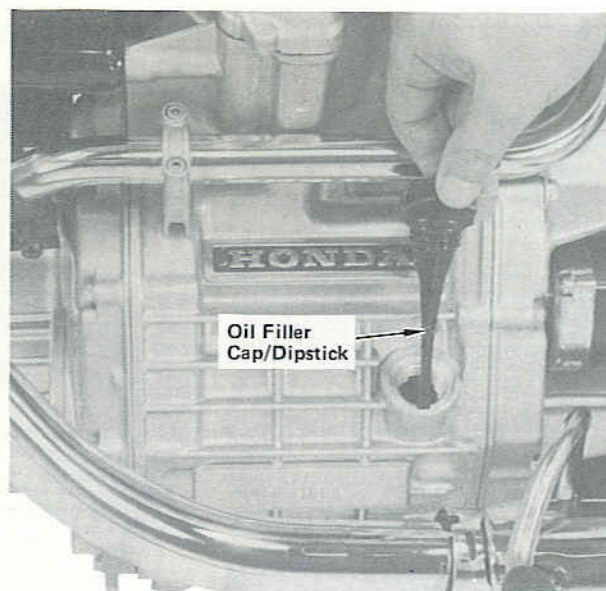


Oil
Filter
Bolt

Drain
Plug

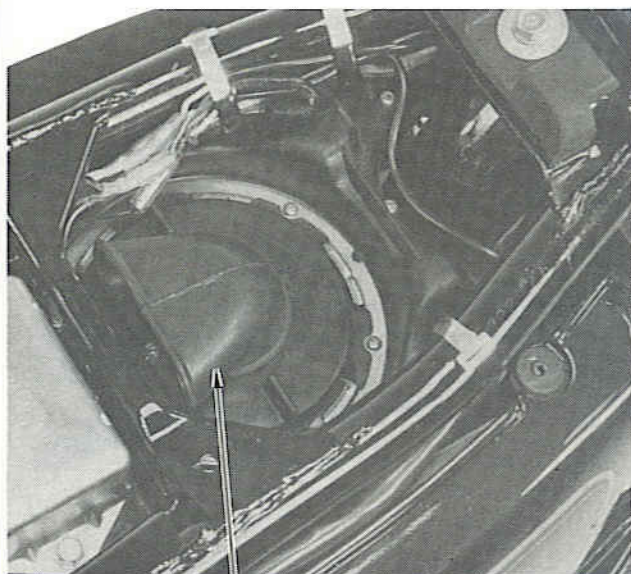
STEP 92—Remove crankcase drain plug, oil filter bolt, and oil filter case to drain engine oil. Service engine oil filter as described in owner's manual or shop manual. Reinstall oil filter case. Reinstall drain plug and oil filter bolt and tighten securely.

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

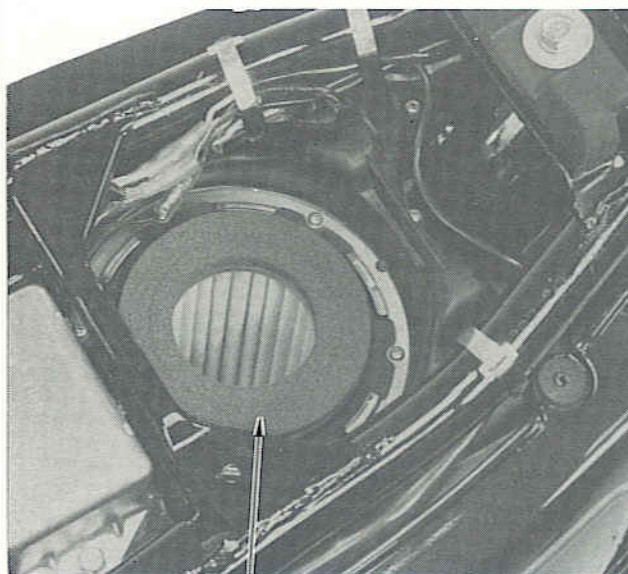


Oil
Filler
Cap/Dipstick

STEP 93—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.



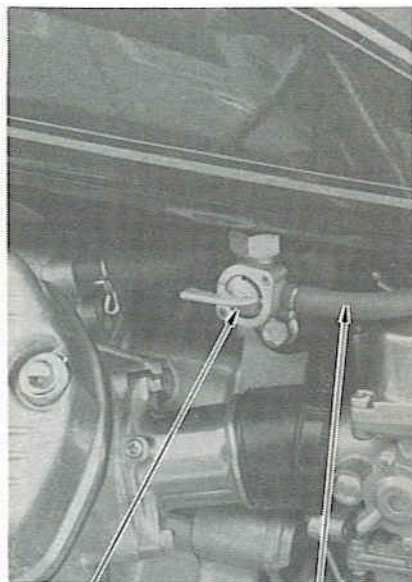
Air
Cleaner
Cover



Air
Cleaner
Element

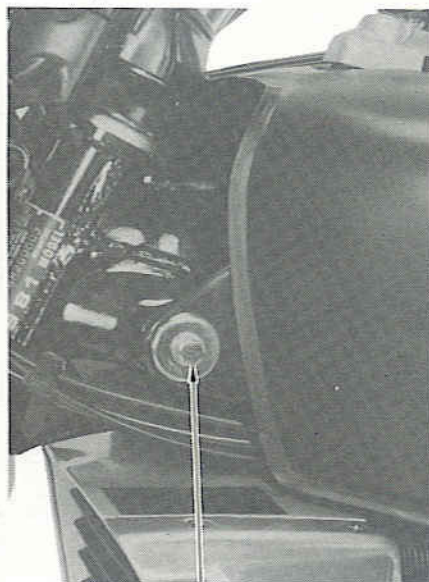
STEP 94—Remove air cleaner cover by turning it counterclockwise. Remove air cleaner element from case and check for condition. Clean element if necessary as described in shop manual and reinstall.

1980, 1981 MODELS ONLY



Fuel
Petcock

Fuel
Line



Fuel Tank Mounting Bolt
(Each Side) (Front)



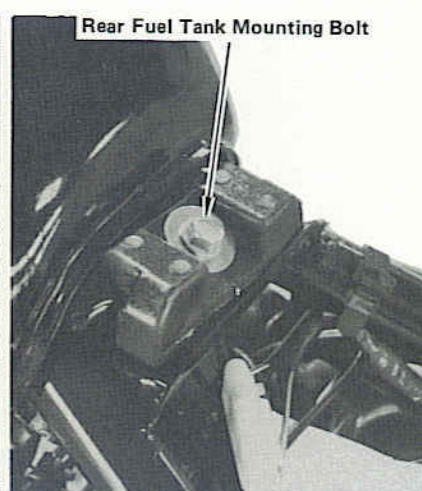
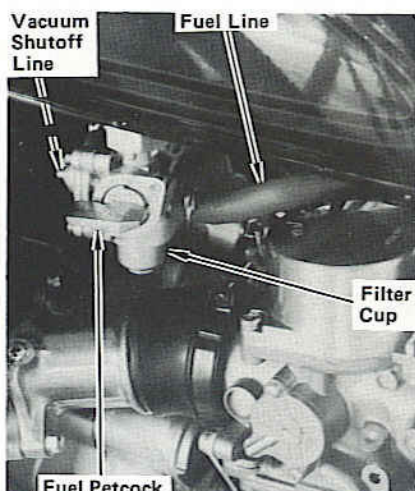
Fuel Tank Mounting Bolt
(Rear)

STEP 95—Turn fuel petcock OFF and disconnect fuel line at petcock. Remove fuel tank by removing and retaining bolts at front and rear. Drain, flush, and inspect fuel tank.

WARNING

Fuel must be drained into a proper container. Gasoline is flammable and is explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.

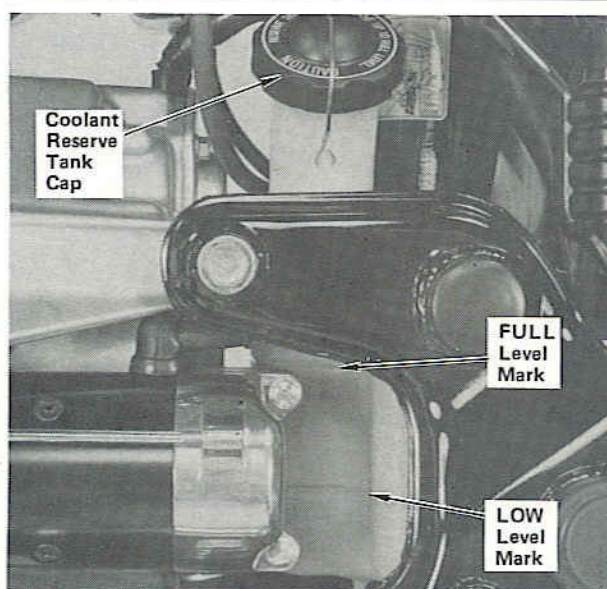
1982 MODEL ONLY



STEP 96—Turn fuel petcock to OFF and disconnect fuel and vacuum shutoff lines from fuel petcock. Remove fuel tank by removing and retaining bolts at front and rear of fuel tank. Drain, flush, and inspect fuel tank. Remove fuel filter cup and wash cup and filter screen in clean non-flammable or high flash point solvent. Reinstall filter screen and “O” ring, aligning index marks on filter screen and fuel petcock body. Reinstall filter cup and tighten to a torque of 0.4 kg-m (3 lb-ft).

WARNING

Fuel must be drained into proper container. Gasoline is flammable and in explosive under certain conditions. Do not smoke or allow flames or sparks near the equipment while draining fuel.

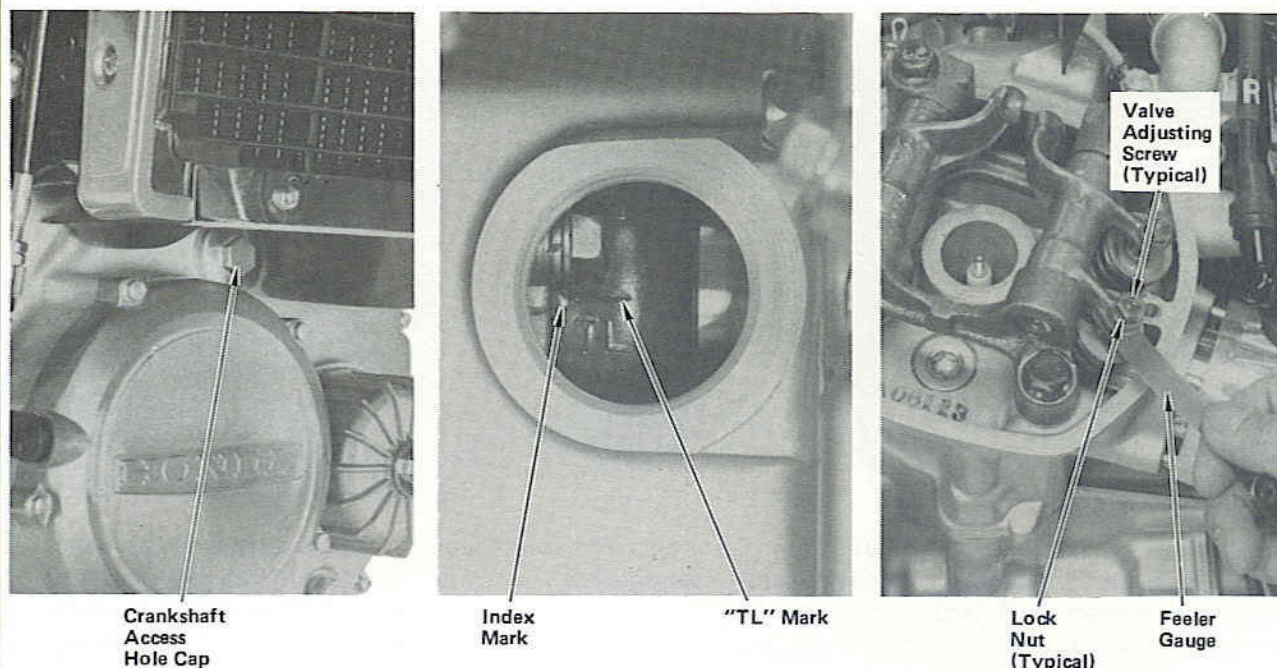


STEP 97—Remove coolant reserve tank cap and add 50/50 solution of anti-freeze and distilled water to bring coolant level up to “FULL” mark.

CAUTION: Do not spill coolant on painted surfaces, as it may damage the finish.



STEP 98—Remove radiator cap and fill radiator slowly up to filler neck with same solution as in Step 90. Bleed air from system by running engine at operating temperature. Reinstall radiator cap and coolant reserve tank cap.



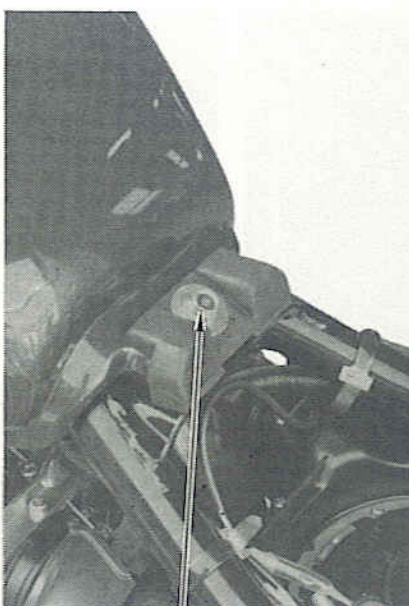
STEP 99—Check valve clearance and adjust as follows, if necessary:

NOTE: Valve clearance adjustment must be done while engine is cold, below 35° C, (95° F).

1. Remove crankshaft access hole cap from transmission cover, and timing hole cap from rear cover.
2. Remove spark plug caps from spark plugs and remove cylinder head covers. Using a "T" handle wrench, rotate crankshaft clockwise and align "TL" mark on flywheel with index mark, with left cylinder at T.D.C. (Top Dead Center) on compression stroke.
3. Insert feeler gauge between valve adjusting screw and valve stem.
 Check intake valve clearance: 0.08 mm (0.003 in.).
 Check exhaust valve clearance: 0.10 mm (0.004 in.).
4. If adjustment is necessary, loosen lock nut and turn valve adjusting screw as required.
5. After adjustment, hold valve adjusting screw and tighten lock nut. Recheck valve clearance.
6. Rotate crankshaft clockwise and align "TR" mark on flywheel with index mark, with right cylinder at T.D.C. on compression stroke.
7. Repeat steps 3 through 5 to adjust valves of right cylinder.
8. Reinstall cylinder head covers, spark plug caps, crankshaft access hole cap, and timing hole cap. Tighten all bolts and caps securely.



Fuel Tank
Mounting
Bolt (Each Side)
(Front)

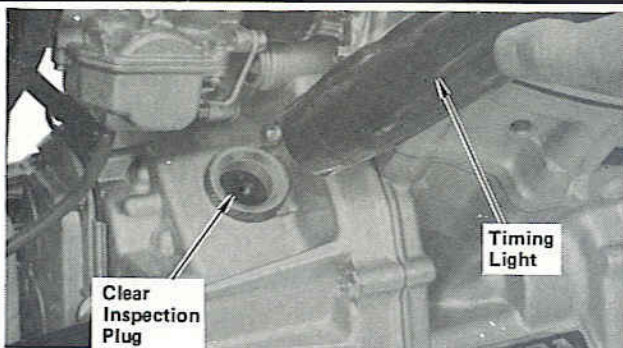


Fuel Tank
Mounting
Bolt
(Rear)



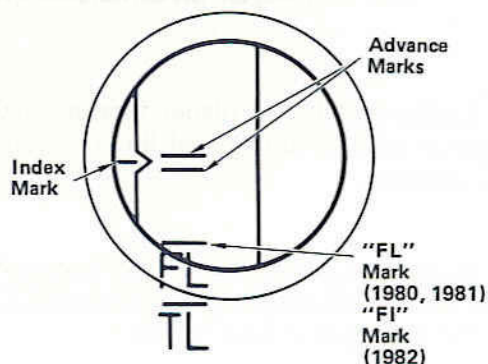
Fuel
Petcock Vacuum
Shutoff Fuel
Line
Line (1982)

STEP 100—Reinstall fuel tank using front and rear bolts removed in Steps 95 and 96. Reconnect fuel line (and on 1982, vacuum shutoff line), fill tank, turn on fuel petcock, and check for leaks. Check fuel flow through fuel filter.



Clear
Inspection
Plug

Timing
Light



STEP 101—Check ignition timing as follows:

1. Remove timing hole cap from rear cover and install clear inspection plug in timing hole.
2. Connect stroboscopic timing light between spark plug and a good engine ground.
3. Start engine and check ignition timing at idle and full advance.
At idle (1,100 + 100 rpm): “FL” (“FI” 1982) mark should be aligned with index mark.
At 5,500 – 6,000 rpm (3,000 rpm 1982): Index mark should be between two advance marks.

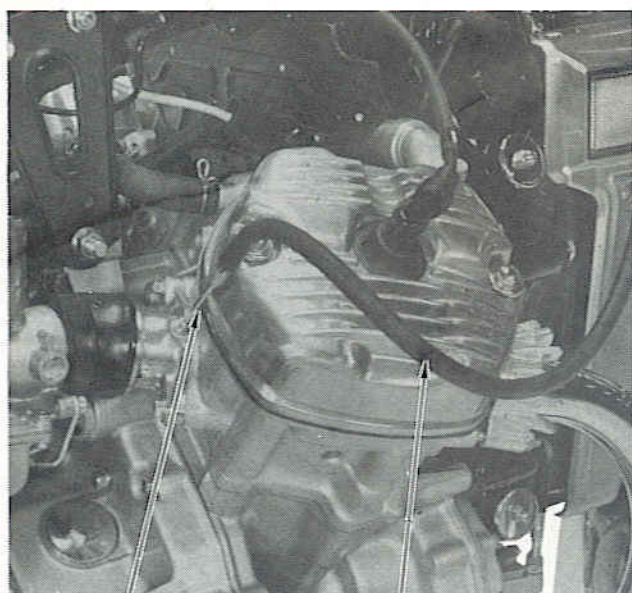
CAUTION: Do not allow engine speed to exceed 8,000 rpm, or engine damage may result.

4. On 1980, 1981 Models, if timing is wrong, check C.D.I. (Capacitor Discharge Ignition) unit and A.C. generator, and replace defective parts as described in shop manual.

NOTE: Because of the use of the C.D.I. system, ignition timing cannot be adjusted.

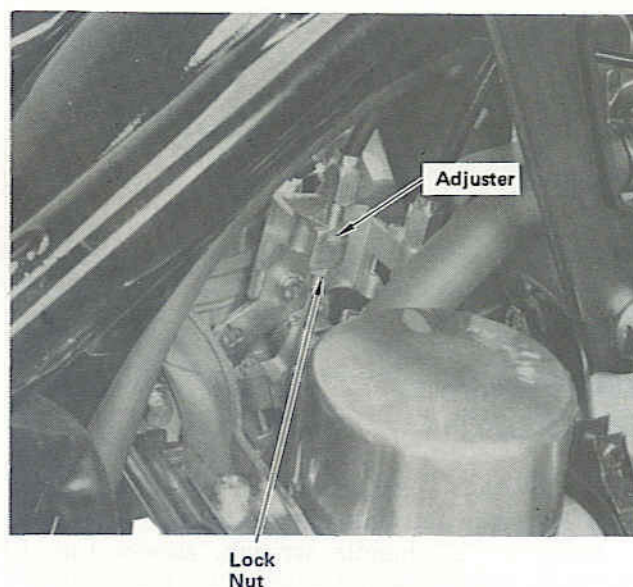
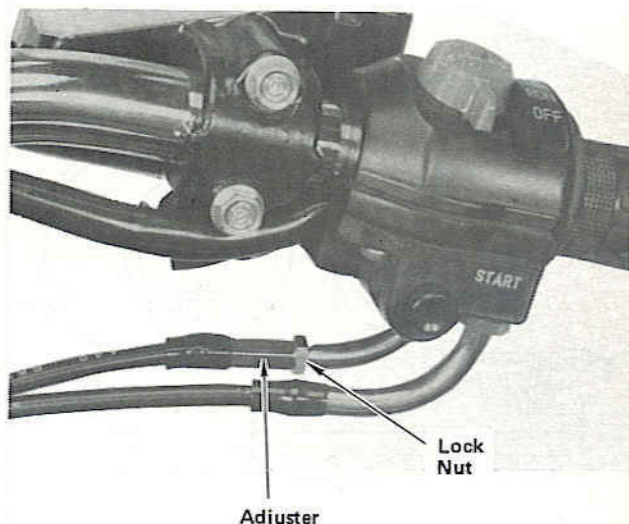
On 1982 Model, if timing is wrong, check spark units and A.C. generator, and replace defective parts as described in shop manual.

5. Stop engine, remove inspection plug, reinstall timing hole cap, and disconnect stroboscopic timing light.

Adapter
(Each Side)Vacuum
Gauge
Tube
(Each Side)Adjusting
ScrewLock
Nut**STEP 102**—Synchronize carburetors as follows:

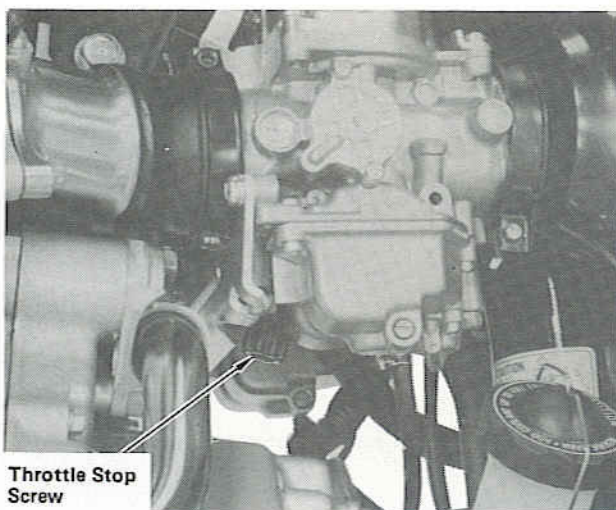
NOTE: Carburetor synchronization is performed with engine at normal operating temperature and motorcycle on centerstand with transmission in neutral.

1. Position fuel tank higher than normal tank position using a longer fuel line between tank and carburetor.
2. Remove vacuum plug screws from cylinder head and install adapters in cylinder head. Connect vacuum gauges to adapters.
3. Start engine and set idle speed at $1,100 \pm 100$ rpm (refer to Step 104). Check that vacuum difference between cylinders is less than 40 mm Hg (1.6 in.Hg).
4. If adjustment is necessary, loosen adjusting screw lock nut.
5. Turn adjusting screw to balance cylinder vacuum within tolerance.
6. Hold adjusting screw and tighten lock nut.
7. Recheck idle speed and carburetor synchronization.
8. Stop engine and remove vacuum gauges.
9. Remove adapters and reinstall vacuum plug screws.
10. Remove fuel line extensions and reinstall fuel tank. Check for leaks.



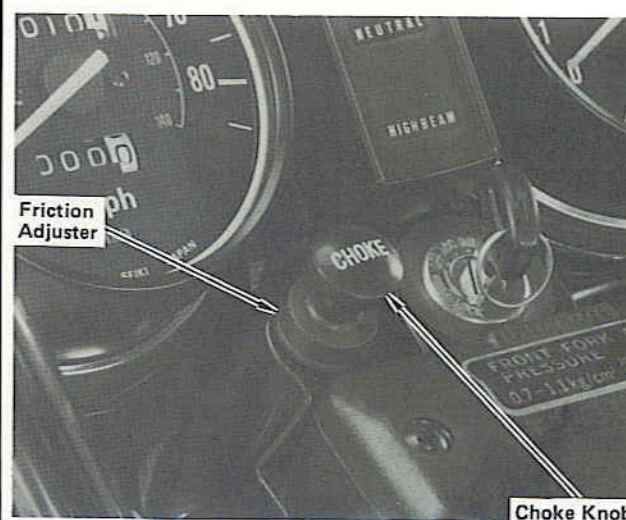
STEP 103—Check that throttle grip free play is 2–6 mm (1/8–1/4 in.) of grip rotation. To adjust free play, loosen free play adjusting lock nut and turn adjuster until free play rotation is 2–6 mm (1/8–1/4 in.). After adjustment, tighten lock nut.

NOTE: Grip free play adjustment can be made at either end of throttle cable. Use lower adjuster to make large adjustments.

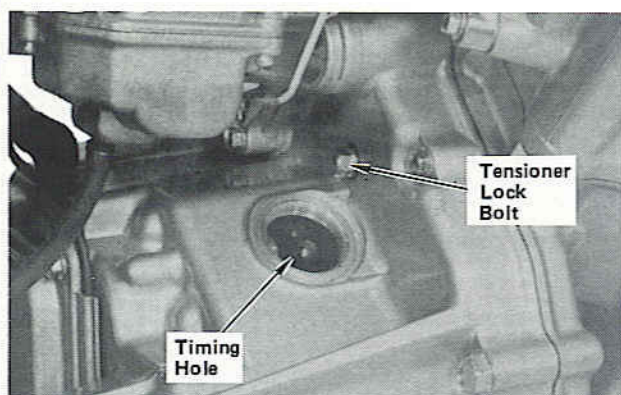


STEP 104—Support motorcycle vertically on centerstand. Put transmission in neutral and start engine. Allow engine to warm up to operating temperature and check idle speed at 1,100 rpm \pm 100 rpm. If necessary, adjust idle speed using throttle stop screw.

CAUTION: Do not adjust pilot screw for idle speed adjustment.

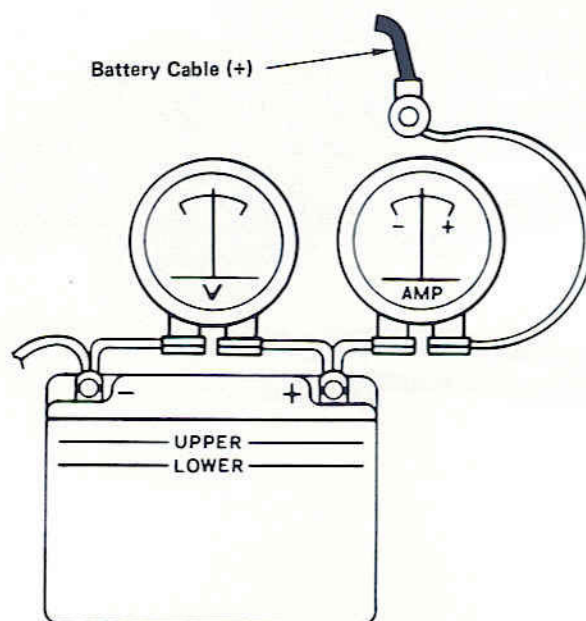


STEP 105—Check choke knob for smooth operation.

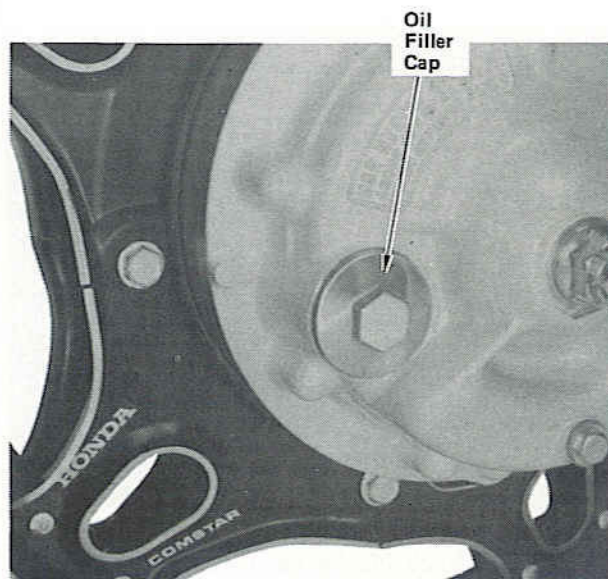


STEP 106—Adjust cam chain as follows:

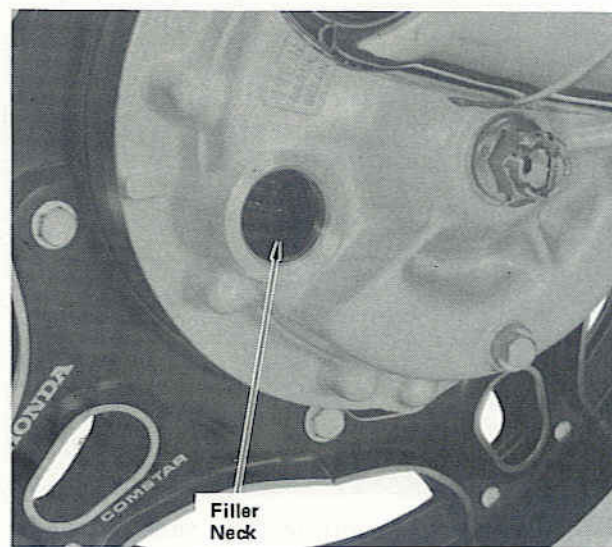
1. Remove left cylinder head cover, crankshaft access hole cap, and timing hole cap.
2. Using a "T" handle wrench, slowly turn crankshaft clockwise and align "TL" mark with index mark, with left piston at T.D.C. on compression stroke.
3. Loosen cam chain tensioner lock bolt. Cam chain tensioner will automatically be positioned for correct cam chain tension.
4. Retighten lock bolt and reinstall cylinder head cover and caps. Tighten securely.



STEP 107—Check battery charging system (volts and amperes) at battery, as described in shop manual.



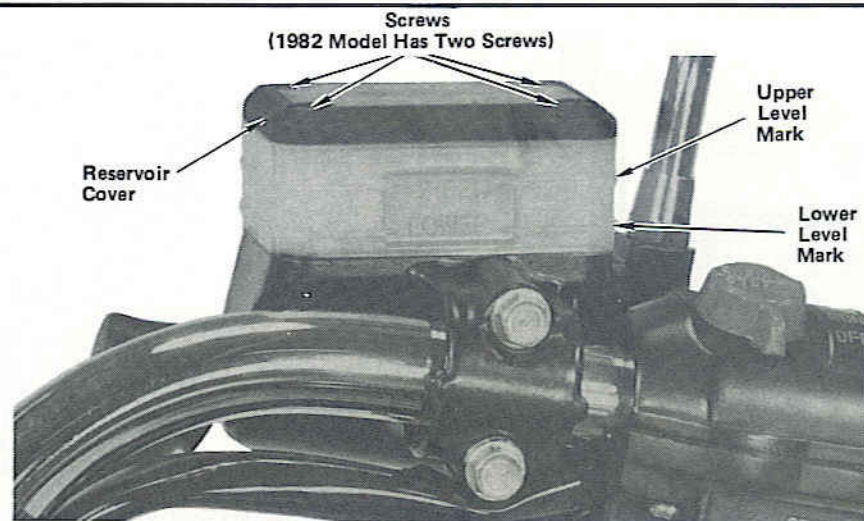
STEP 108—With motorcycle on centerstand, remove oil filler cap from final drive gear case.



STEP 109—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: 170cc (5.7 oz.)

Recommended Oil: Hypoid Gear Oil SAE 90

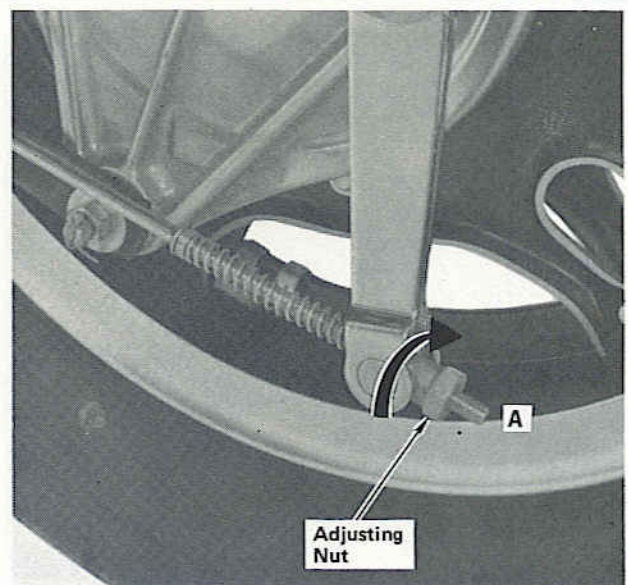
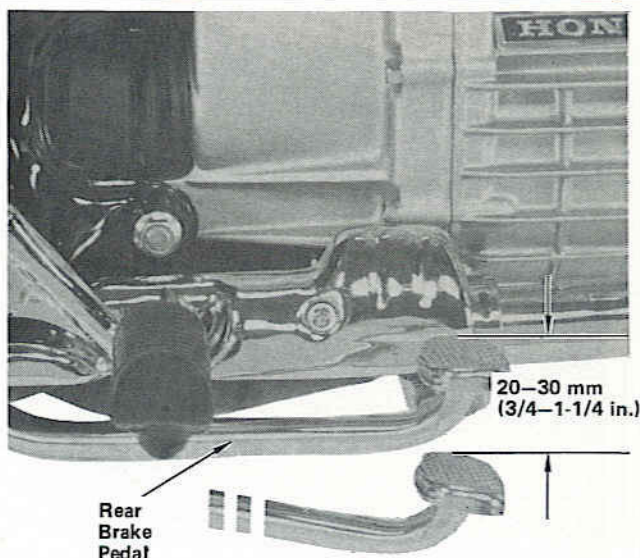


STEP 110—Check fluid level above lower level mark; if fluid level is low, remove reservoir cover, gasket, and diaphragm by removing screws. Add DOT 3 brake fluid from a sealed container up to upper level mark. Reinstall diaphragm, gasket, cover, and screws. Tighten screws securely. If brake lever free play becomes excessive and reservoir is filled to proper level, air is in the system and system must be bled as described in shop manual.

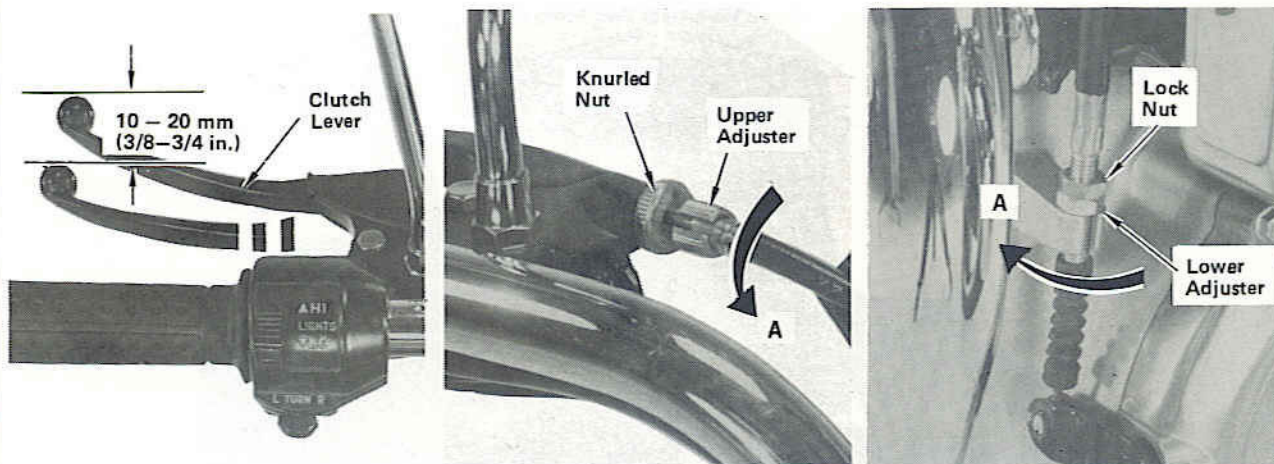
WARNING Brake fluid can cause irritation. Avoid contact with skin or eyes.

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 front brake requires no free play adjustments.

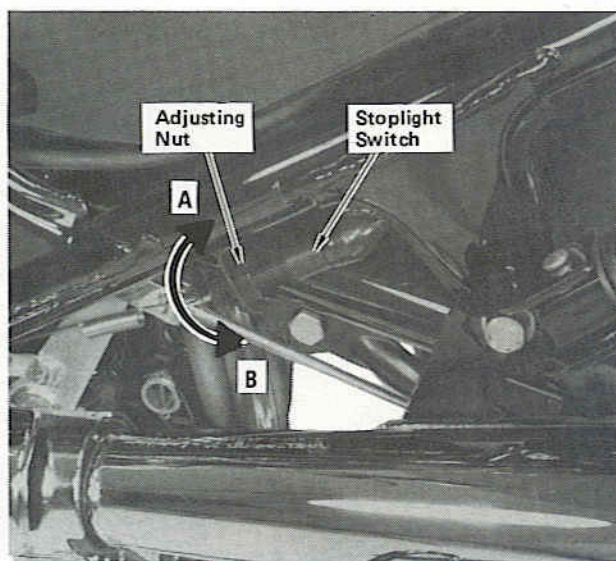


STEP 111—Place motorcycle on centerstand. Rotate rear wheel by hand and measure free play before brake starts to engage. Free play, measured at tip of brake pedal, should be maintained between 20 and 30 mm (3/4–1-1/4 in.). To adjust free play, turn adjusting nut. Turning nut in direction "A" will decrease free play.

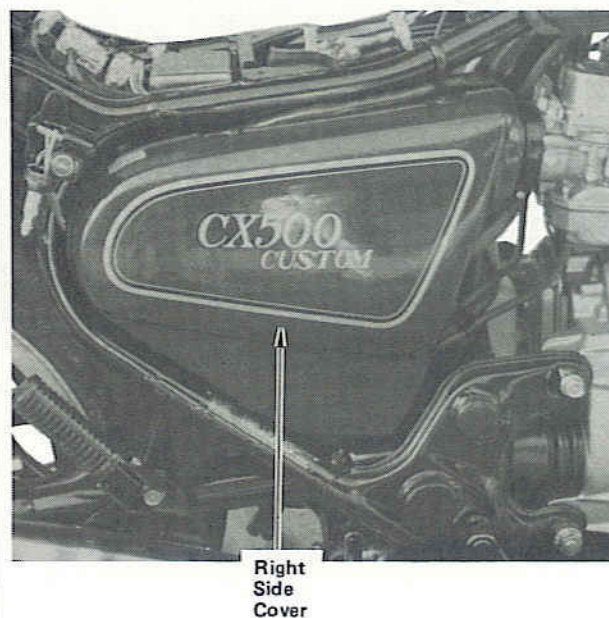


STEP 112—Check clutch lever free play at tip of lever between 10 and 20 mm (3/8–3/4 in.) before clutch starts to disengage. Clutch lever free play can be adjusted at either end of clutch cable. Use lower adjuster to make major adjustments by loosening lock nut and turning lower adjuster. Small adjustments are made at clutch hand lever by loosening knurled nut and turning adjuster. After adjustment, tighten lock nut and knurled nut. Turning either adjuster in direction “A” will decrease free play.

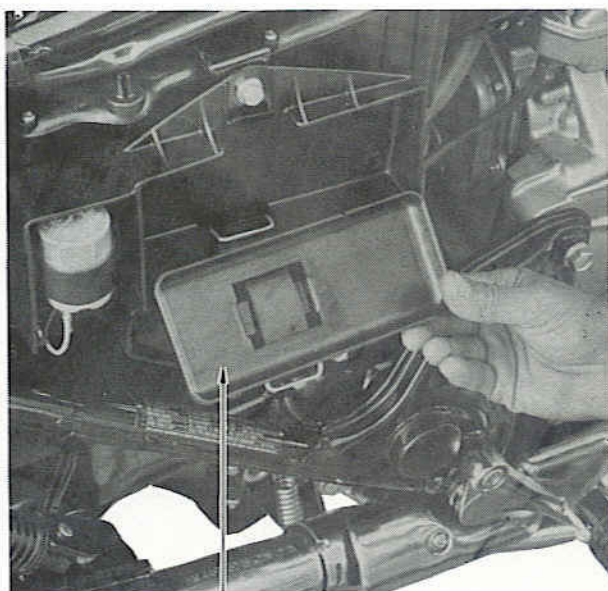
CAUTION: After adjusting clutch, check that clutch is not slipping, and that clutch is properly disengaging as follows: start engine, pull in clutch lever and shift into gear, and check that engine does not stall or motorcycle start to creep. Gradually release clutch lever and open throttle, motorcycle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



STEP 113—Turn on ignition switch and adjust stoplight switch so stoplight will come on when brake pedal is pressed to the point where brake just starts to engage. If stoplight comes on too late, turn adjusting nut in direction “A”. If stoplight comes on too early, turn adjusting nut in direction “B”.

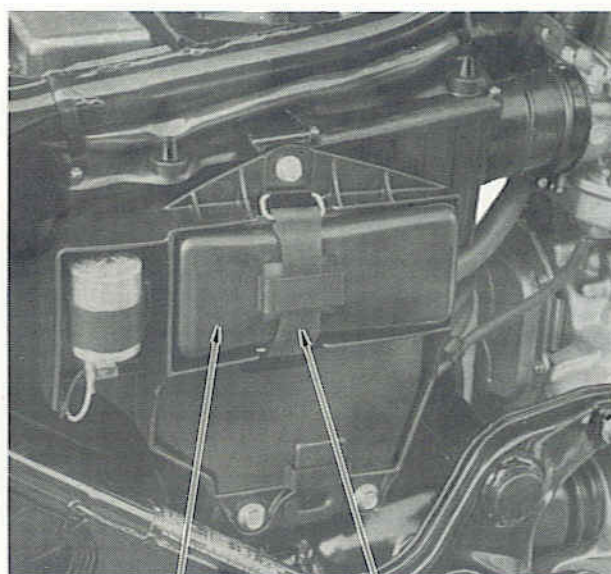


STEP 114—Remove right side cover.



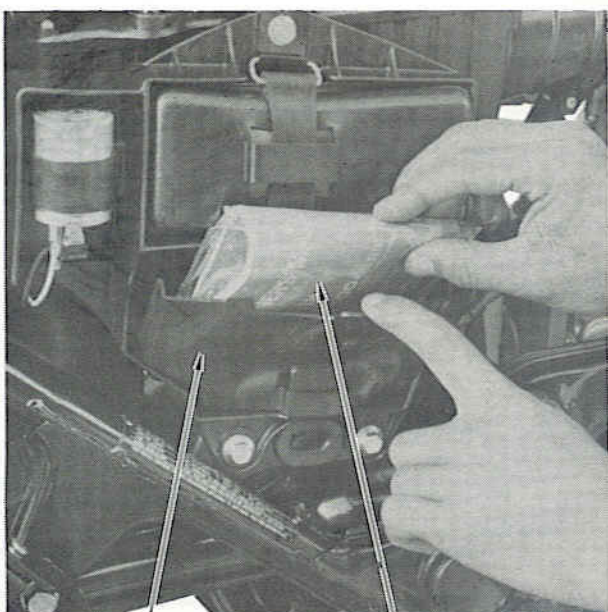
Tool
Box
Cover

STEP 115—Open tool box cover.



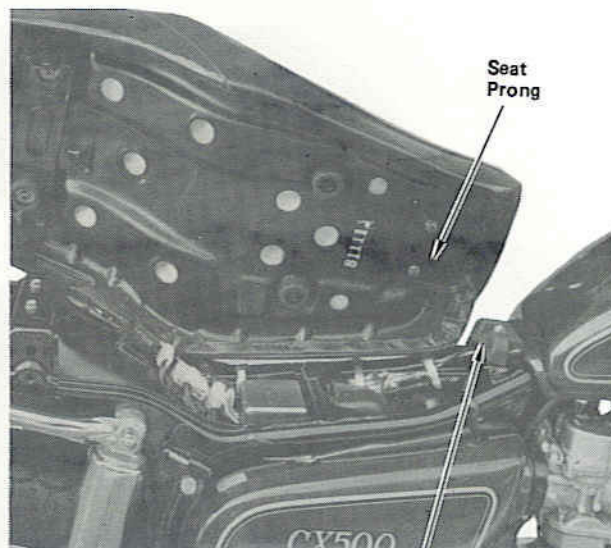
Tool
Box
Cover Strap

STEP 116—Install tool kit in tool box and retain cover with strap as shown.



Owner's
Manual
Compartment Owner's
Manual

STEP 117—Install owner's manual in owner's manual compartment and push closed. Reinstall right side cover.



Seat
Prong

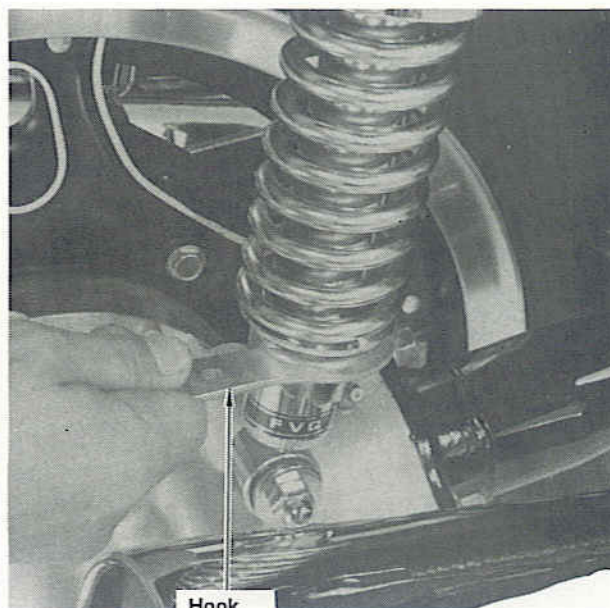
Recess

STEP 118—Install seat at front by inserting front prong of seat into recess under fuel tank rear cushion.



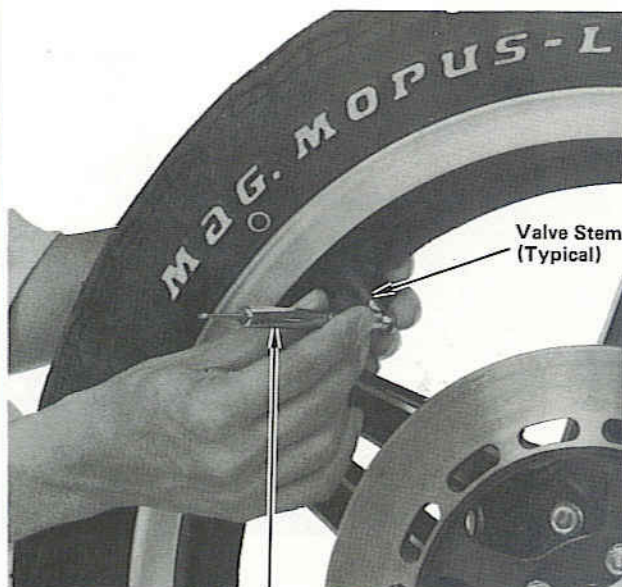
8 x 14 mm
Flange
Bolt
(Each Side)

STEP 119—Install seat at rear using two 8 x 14 mm flange bolts through seat tabs into frame. Tighten bolts to specified torque.



Hook
Spanner

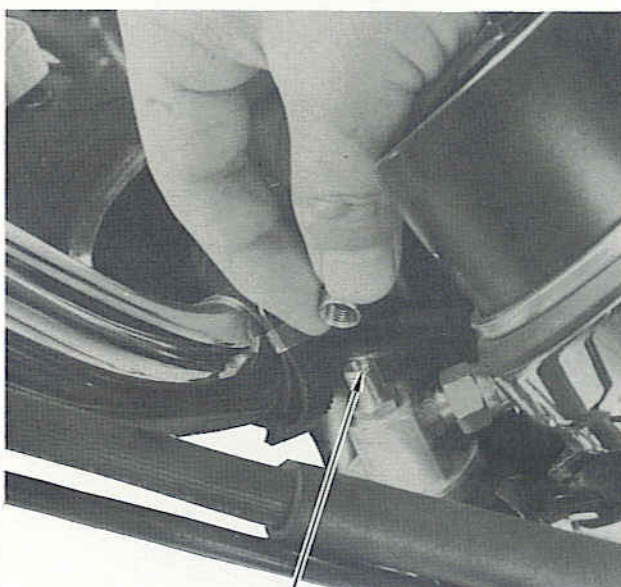
STEP 120—Check that right and left rear shock absorbers are adjusted to same position.



Tire Pressure Gauge

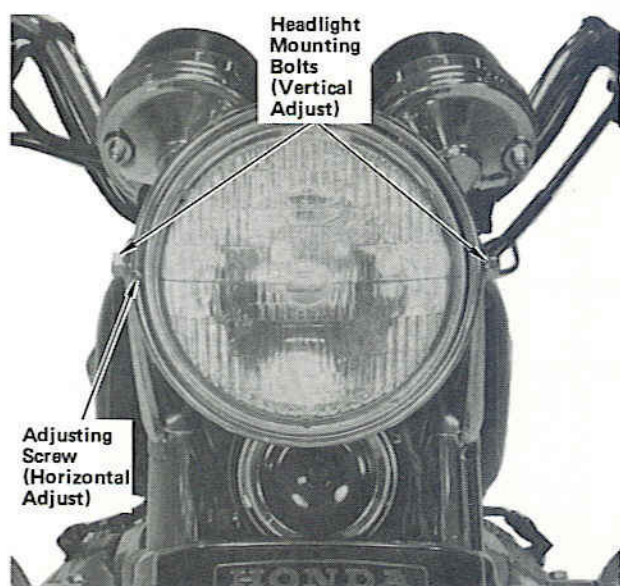
STEP 121—Check tire pressure.

Front: 28 psi Rear: 28 psi



Valve

STEP 122—Check front fork air pressure.
Standard Pressure: 10 — 16 psi.



STEP 123—Adjust headlight beam according to local regulations prior to delivery. Loosen headlight mounting bolts and tilt headlight for vertical adjustment. Retighten mounting bolts. Turn adjusting screw on upper right side of headlight for horizontal adjustment.

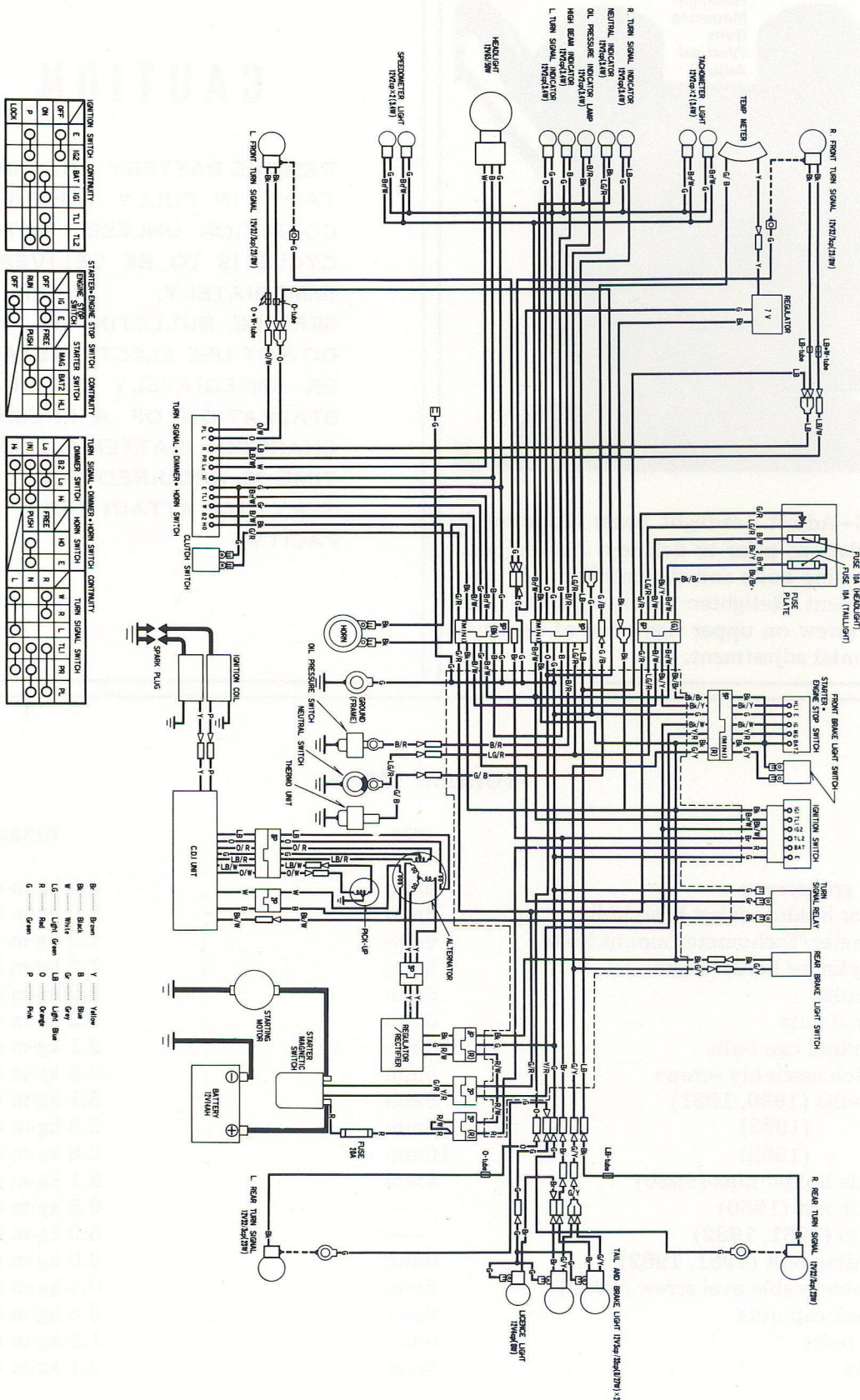
CAUTION

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.

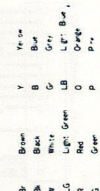
TORQUE TABLE

ITEM	SIZE	TORQUE
Throttle grip screws	5mm	0.5 kg-m (4 lb-ft)
Handlebar holder socket head bolts	8mm	3.0 kg-m (22 lb-ft)
Speedometer/Tachometer mount bolts	6mm	1.2 kg-m (9 lb-ft)
Master cylinder holder bolts	6mm	1.2 kg-m (9 lb-ft)
Fender bolts	6mm	1.2 kg-m (9 lb-ft)
Turn signal nuts	6mm	1.2 kg-m (9 lb-ft)
Rear handrail cap bolts	8mm	2.1 kg-m (16 lb-ft)
Left switch assembly screws	5mm	0.5 kg-m (4 lb-ft)
Caliper bolts (1980, 1981)	8mm	2.1 kg-m (16 lb-ft)
(1982)	8mm	2.3 kg-m (17 lb-ft)
(1982)	10mm	2.8 kg-m (21 lb-ft)
Front axle holder nuts (1980)	8mm	2.1 kg-m (16 lb-ft)
Front axle nut (1980)	-----	6.5 kg-m (47 lb-ft)
Front axle (1981, 1982)	-----	6.0 kg-m (44 lb-ft)
Axle holding bolt (1981, 1982)	8mm	2.0 kg-m (15 lb-ft)
Speedometer cable oval screw (1980)	5mm	0.4 kg-m (3 lb-ft)
Rear shock cap nuts	6mm	3.5 kg-m (26 lb-ft)
Taillight bolts	6mm	1.2 kg-m (9 lb-ft)
Seat bolts	8mm	2.1 kg-m (16 lb-ft)












1980 MODEL



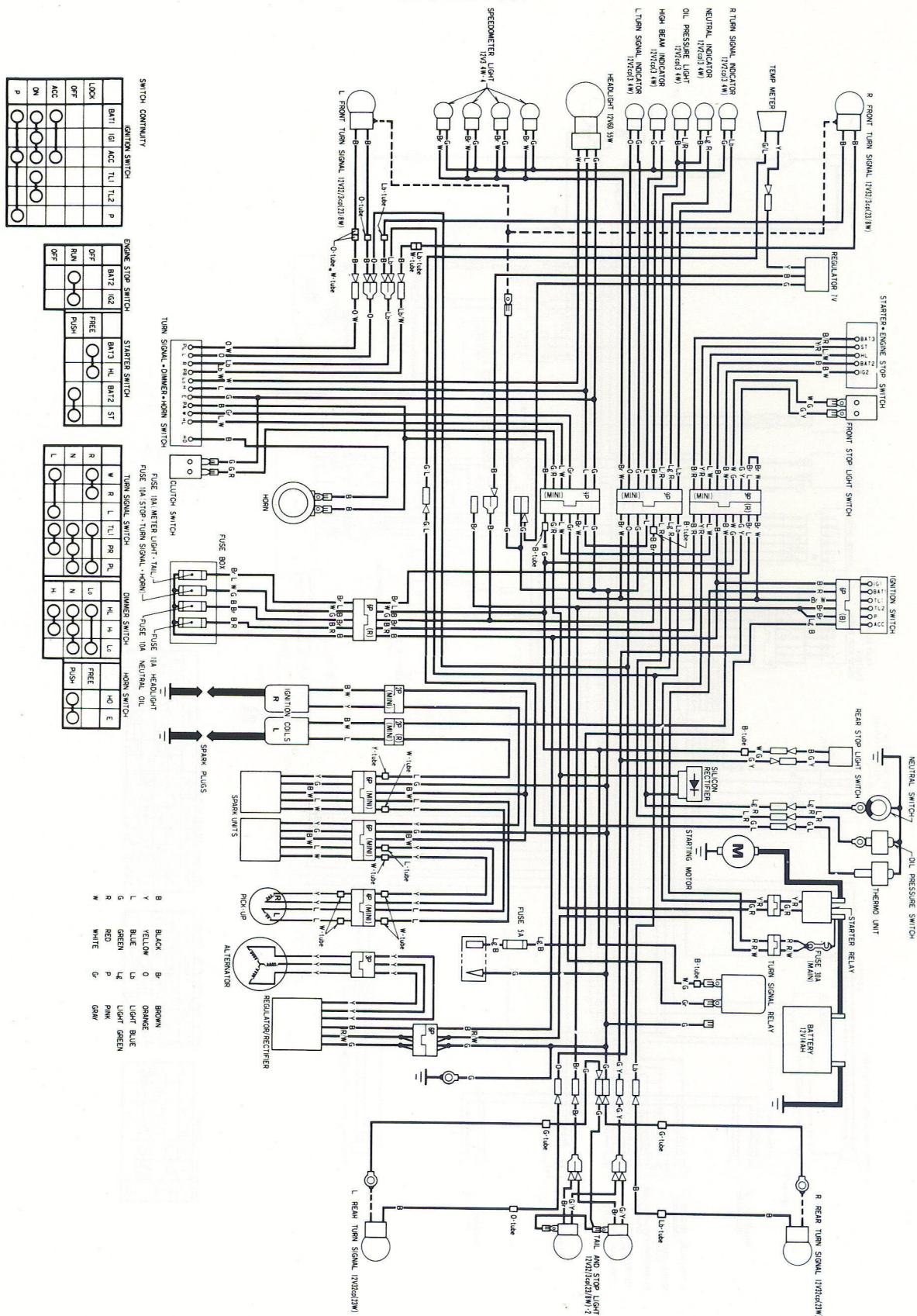
1981 MODEL



ENGINE STOP SWITCH		STARTER SWITCH	
IG	E	MAG	BAT2 MLI
OFF	<input type="radio"/>	FREE	<input type="radio"/>
RUN	<input type="radio"/>	PUSH	<input type="radio"/>
OFF	<input type="radio"/>		

POSITION	SWITCH	CONTINUITY	E	IG2	BAT	IG1	TL1	TL2
OFF	OFF							
	ON							
	P							

1982 MODEL



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

- | | |
|--|---|
| <ul style="list-style-type: none"> <input type="checkbox"/> Fill front brake master cylinder reservoir with DOT 3 brake fluid, and bleed brake system <input type="checkbox"/> Adjust rear brake and check operation of front and rear brakes. <input type="checkbox"/> Adjust clutch, check cable routing, and check operation. <input type="checkbox"/> Drain oil from crankcase and filter (if necessary). Refill crankcase with recommended oil. <input type="checkbox"/> Fill cooling system and check for leaks. <input type="checkbox"/> Clean fuel filter. Remove and inspect fuel tank, and drain and flush. <input type="checkbox"/> Adjust cam chain tension. <input type="checkbox"/> Check valve clearance, adjust if necessary. <input type="checkbox"/> Reinstall fuel tank, fill, turn on petcock and check for leaks. <input type="checkbox"/> Install and adjust mirrors. <input type="checkbox"/> Check ignition timing. <input type="checkbox"/> Synchronize carburetors. <input type="checkbox"/> Check choke operation. <input type="checkbox"/> Adjust idle speed. <input type="checkbox"/> Fill final drive gear case with recommended oil. <input type="checkbox"/> Check throttle grip free play, cable routing, and operation in all steering positions. <input type="checkbox"/> Check tire pressure. <input type="checkbox"/> Check operation and adjustment of front and rear suspension. <input type="checkbox"/> Check operation and adjustment of front and rear suspension and check front fork air pressure. | <ul style="list-style-type: none"> <input type="checkbox"/> Inspect electrical components for proper operation and adjustment: <ul style="list-style-type: none"> • 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. • Running lights. • Horn. • Engine stop switch. • Starter. • Instrument, turn signal, oil pressure, and neutral indicator lights. • Temperature gauge. • Battery charging system. <input type="checkbox"/> Check security of all nuts, bolts, and other fasteners. <input type="checkbox"/> Check to ensure that all applicable recall and product update campaigns are complied with. <input type="checkbox"/> TEST RIDE: Check performance, handling, and operation. <ul style="list-style-type: none"> • 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. |
|--|---|

1980 LOOSE PARTS

The following is a list of loose items contained in the parts package cartons.

PART NAME	QTY	H/C	PART NUMBER
Handlebar	1	-----	53100-449-770
Speedometer gearbox	1	079096	44800-449-003
Gearbox retainer	1	-----	44680-410-006
Dust seal	1	067099	91258-410-013
Master cylinder holder	1	069279	44517-422-006
Front axle	1	049508	44301-413-000
Front wheel axle collar	1	049509	44311-413-000
Front fork axle holder	1	025565	95014-41000
Washer, plain, 15.2 x 25 mm	1	013779	90557-130-000
Axle nut, 14 mm	1	046725	90305-401-680
Nut, hex, 8 mm (front fork)	2	011468	94030-08000
Bolt, flange, 6 x 25 mm (master cylinder holder)	2	-----	95700-06025-00
Socket bolt, 8 x 32 mm (handlebar upper holder)	4	040902	90185-371-000
Handlebar upper holders	2	083045	53131-415-303
Screw, pan head, 5 x 25 mm (turn signal switch)	2	014556	93500-05025-0A
Bolt, cap, 6 x 40 mm (headlight case)	2	067098	92500-06040-0A
Front fender	1	079078	61100-449-000
Seat	1	079081	77200-449-670
Bolt, flange, 8 x 14 mm (seat)	1	-----	95700-08014-07
Tool box cover	1	-----	83502-449-000
Tool set band	1	079008	83504-449-000
Speedometer cable assy	1	083080	44830-415-610
Battery	1	066824	31500-415-671
Headlight assy	1	079044	33100-449-671
Foot peg, right	1	079066	50610-449000
Foot peg, left	1	079068	50620-449-000
Front turn signal, right	1	038633	33400-377-671
Front turn signal, left	1	038638	33450-377-671
Rear turn signal, right	1	079045	33600-449-670
Rear turn signal, left	1	079046	33650-449-670
Brake hose bush	1	040738	45146-371-000
Socket bolt cap (handlebar upper holder)	4	043219	91456-371-770
Bolt, flange, 6 x 16 mm (front fender)	4	025226	95700-06016-08
Screw, pan head, 5 x 16 mm (headlight)	2	019291	93500-05016-0B
Bolt, hex, 6 x 35 mm (turn signal)	4	041227	93000-06035-02
Nut, flange, 6 mm (turn signal)	4	047162	94050-06000
Washer, plain, 8 mm (front fork)	2	005909	94101-08000
Washer, spring, 8 mm	2	005898	94111-08000
Screw, oval head, 5 x 16mm (speedometer gearbox)	1	016697	93700-05016-0A
Wire band B1	4	046881	32161-404-000
Washer, 10.3 mm (rear shock absorber)	2	014487	90521-292-000
Earth terminal cover (rear turn signal)	2	-----	33625-449-000
Cotter pin, axle, 3.0 x 25 mm	1	005842	94201-30250
Bolt, cap, 8 x 80 mm (rear bumper)	2	049630	92500-08080-0B
Front fender guide	1	-----	61102-413-000
Rear view mirror, right	1	079009	88110-449-000
Rear view mirror, left	1	079010	88120-449-000
Tool set	1	067050	89010-415-000
Gearshift pedal rubber	1	049437	2481-419-000
Grommet wire cord (front fork)	2	000873	32981-011-000
Bolt, flange, 6 x 20 mm (taillight)	3	079014	90113-449-000
Bolt, flange, 6 x 20 mm			
(speedometer/tachometer assy)	2	047616	95700-06020-07
Owner's manual	1	-----	3144901

1981 LOOSE PARTS

The following is a list of loose items contained in the parts package cartons.

PART NAME	QTY	H/C	PART NUMBER
Handlebar	1	-----	53100-449-770
Socket bolt, 8 x 32mm	4	040902	90185-371-000
Socket bolt cap	4	043219	91456-371-770
Wire band B1	4	046881	32161-404-000
Front fender	1	096272	61100-449-750
Flange bolt, 6 x 16mm	4	025226	95700-06016-08
Fender guide	1	090540	61102-415-010
Brake hose bushing	1	040738	45146-371-000
Front wheel	1	-----	-----
Front axle	1	096229	44301-449-750
Flange bolt, 8 x 50mm	1	068787	95700-08050-00
Flange nut, 8mm	1	048114	94050-08000
Axle collar	1	049509	44311-413-000
Speedometer gearbox	1	079096	44800-449-003
Master cylinder holder	1	-----	44517-MA5-671
Flange bolt, 6 x 25mm	2	-----	59700-06025-00
Headlight assy	1	079044	33100-449-671
Pan head screw, 5 x 16mm	2	019291	93500-05016-0B
Speedometer/tachometer assy	1	-----	-----
Flange bolt, 6 x 20mm	2	047616	95700-06020-07
Speedometer cable	1	096275	44830-449-750
Seat	1	079081	77200-449-670
Flange bolt, 8 x 14mm	2	080246	95700-08014-07
Taillight assy	1	-----	-----
Flange bolt, 6 x 20mm	3	079014	90113-449-000
Right front turn signal	1	038633	33400-377-671
Left front turn signal	1	038638	33450-377-671
Right rear turn signal	1	079045	33600-449-670
Left rear turn signal	1	079046	33650-449-670
Grommet, wire cord	2	-----	32938-011-000
Hex bolt, 6 x 35mm	4	038789	93000-06035-02
Flange nut, 6mm	4	047162	94050-06000
Earth terminal cover	2	080121	33625-449-000
Battery	1	095261	31500-461-770
Right foot peg	1	079066	50610-449-000
Left foot peg	1	079068	50620-449-000
Gearshift pedal rubber	1	079039	24781-449-000
Washer, 10.3mm (rear shock absorber)	2	014487	90521-292-000
Cap bolt, 8 x 18mm (rear handrail)	2	049630	92500-08080-0B
Tool set	1	067050	89010-415-000
Owner's manual	1	094874	3144902

1982 LOOSE PARTS

The following is a list of loose items in parts package cartons.

PART NAME	QTY	H/C	PART NUMBER
Handlebar	1	109777	53100-449-830
Socket bolt, 8 x 32 mm	4	040902	90185-371-000
Fuse box cover	1	109763	38210-449-830
Oval screw, 5 x 16 mm	2	076872	93700-05020-0G
Wire band B1	4	046881	32161-404-000
Front fender	1	096272	61100-449-750
Flange belt, 6 x 16 mm	4	025226	95700-06016-08
Fender guide	1	109781	61102-449-830
Brake hose bushing	1	040738	45146-371-000
Front wheel	1	-----	-----
Front axle	1	096229	44301-449-750
Flange bolt, 8 x 50 mm	1	068787	95700-08050-00
Flange nut, 8 mm	1	048114	94050-08000
Axle collar	1	049509	44311-413-000
Speedometer gearbox	1	095249	44800-461-711
Master cylinder holder	1	095234	44517-MA5-671
Flange bolt, 6 x 25 mm	2	072107	59700-06025-07
Headlight assy	1	063760	33100-431-671
Pan head screw, 5 x 16 mm	2	019291	93500-05016-0B
Speedometer/tachometer assy	1	-----	-----
Flange bolt, 6 x 20 mm	3	079014	90113-449-000
Right front turn signal	1	038633	33400-337-671
Left front turn signal	1	038638	33450-377-671
Right rear turn signal	1	079045	33600-449-670
Left rear turn signal	1	079046	33650-449-670
Grommet, wire cord	2	080121	33625-449-000
Hex bolt, 6 x 35 mm	4	038789	93000-06035-02
Flange nut, 6 mm	4	047162	94050-06000
Earth terminal cover	2	080121	33625-449-000
Battery	1	095261	31500-461-770
Right foot peg	1	109772	50610-449-830
Left foot peg	1	109773	50620-449-830
Gearshift pedal rubber	1	079039	24781-449-000
Washer 10.3 mm (rear shock absorber)	2	014487	90521-292-000
Cap bolt, 8 x 80 mm (rear handrail)	2	043534	92600-08080-0B
Tool set	1	067050	89010-415-000
Owner's manual	1	106989	3144903