

Set-up Instructions



MPD 9617-9706 8512
AMERICAN HONDA MOTOR CO., INC.
100 WEST ALONDRA BOULEVARD, GARDENA, CALIFORNIA 90247

1986 Model ATC125M

WARNING

WARNING

WARNING

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SET-UP AND PRE-DELIVERY SERVICE MUST BE PERFORMED BY AN AUTHORIZED HONDA ALL TERRAIN VEHICLE (ATV) DEALER. Proper set-up and pre-delivery service is essential to rider safety and reliability of the vehicle. When a customer takes delivery of his brand new vehicle, 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 vehicle. An error or oversight made by the mechanic assembling and servicing a new unit can easily result in faulty operation, damage to the vehicle, or even injury to the rider.

NOTE: The black vertical bars at the edge of the pages, as shown here, indicate changes. Please read carefully.



NOTES:

- 1984, 1985 Model photos were used in some steps.
- Right and left are determined from the rider's view.

Date of Issue: 11/85 This page supersedes page 1 dated 11/85. Remove and destroy superseded page. Rev. 12/85

SET-UP INSTRUCTION REVISED PAGES

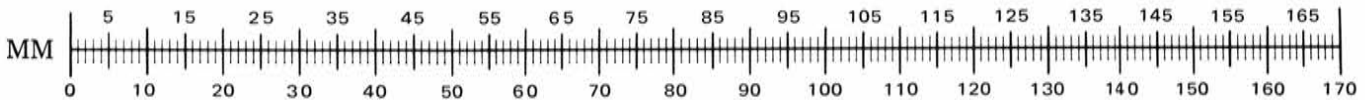
Pages Affected

1 through 28
1, 2, 4, 5, 6, 7,
11, 18, 19 and 20

Rev. Date

Original
12/85

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METRIC SCALE FOR DETERMINING BOLT LENGTHS/DIAMETERS

Pay special attention to warnings, cautions, and notes.

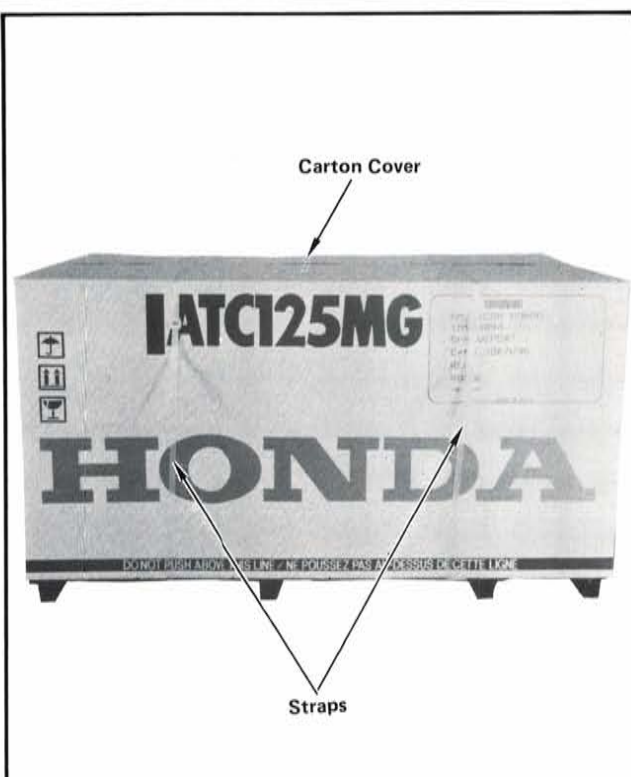
WARNING means hazards or unsafe practices which could cause severe personal injury or death.

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

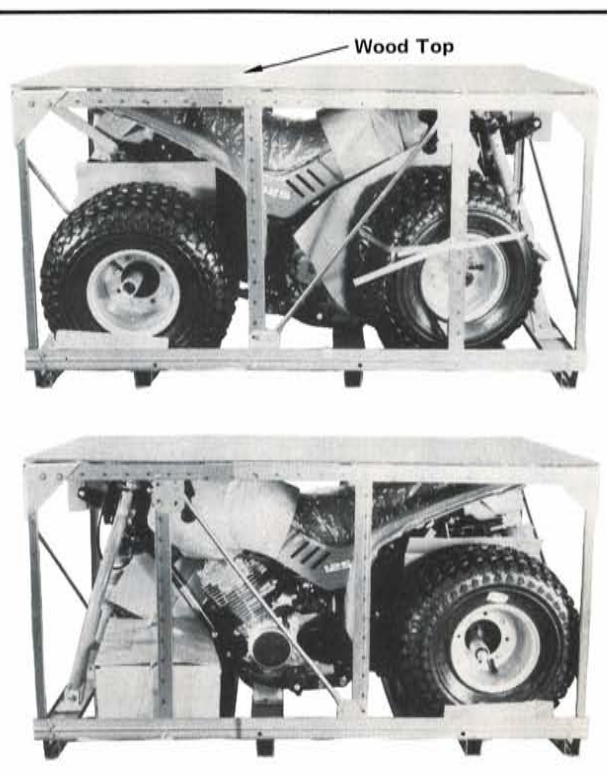
NOTE: gives helpful information.

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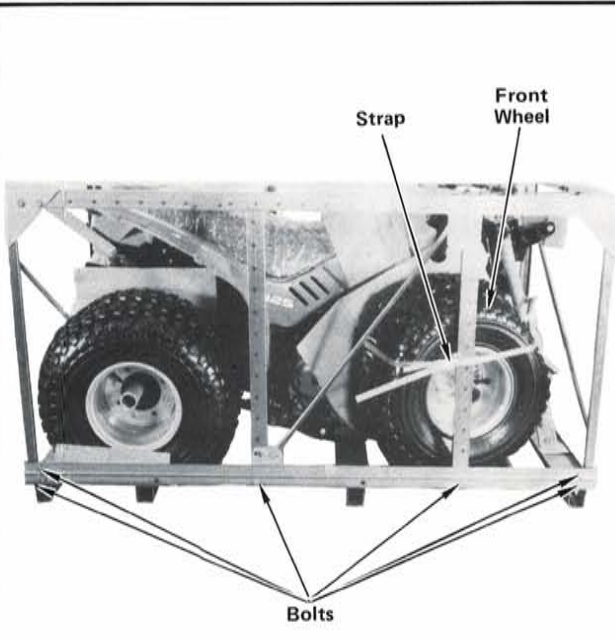
Rev. 12/85



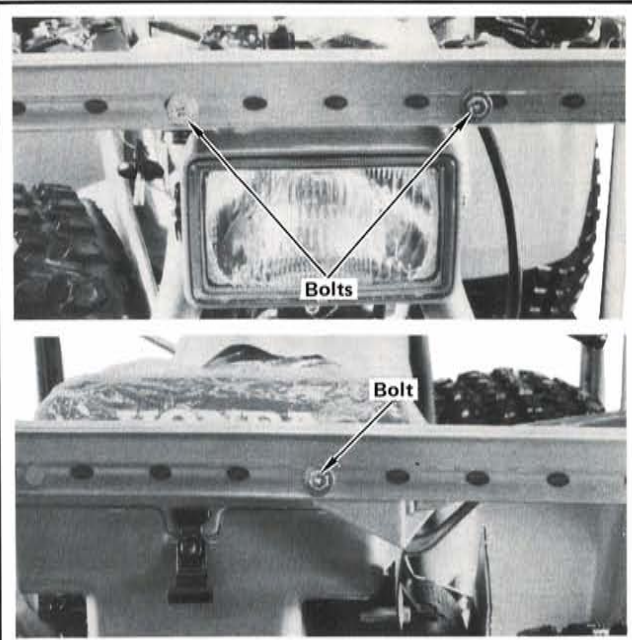
STEP 1—Cut straps and remove carton cover by lifting it up.



STEP 2—Remove and discard crate wood top.

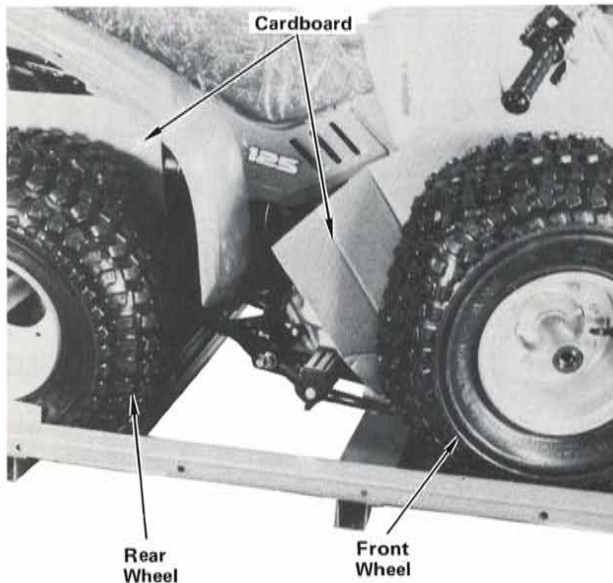


STEP 3—Cut straps holding front wheel to side brace. Remove and discard twelve bolts attaching crate ends and side braces to base.

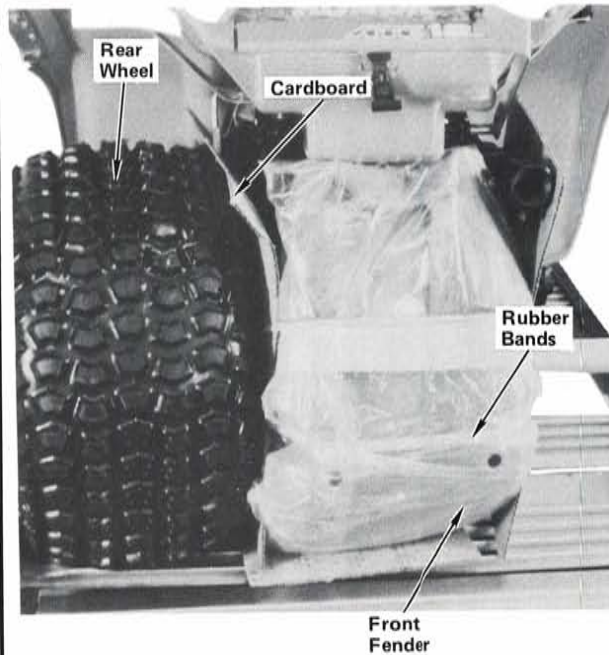


STEP 4—Remove and discard bolts attaching front and rear shipping brackets to crate ends. Carefully remove crate frame, using two people. Discard frame.

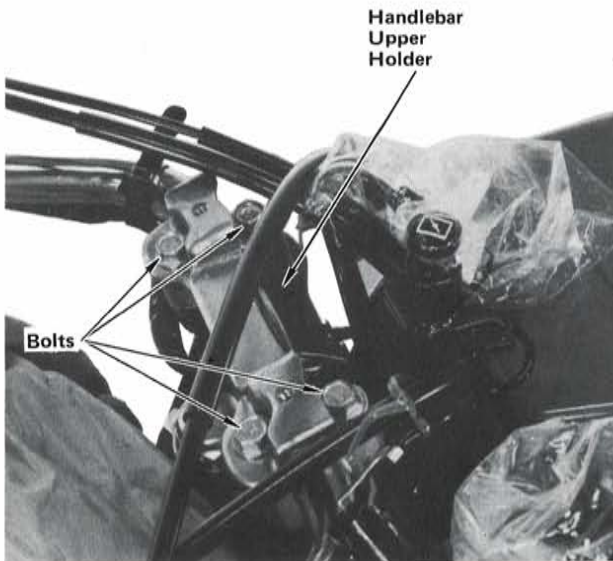
CAUTION: Don't damage the vehicle when removing frame.



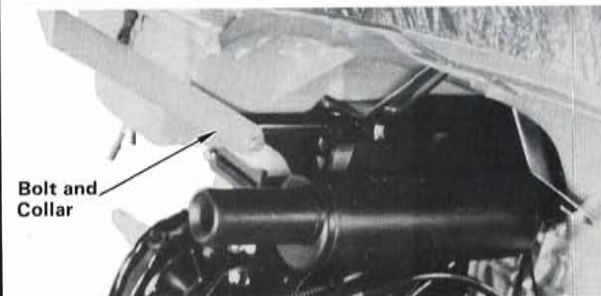
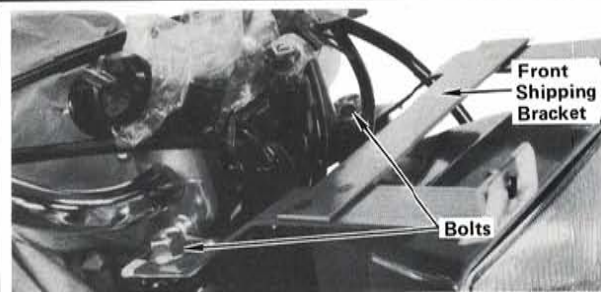
STEP 5—Remove front and rear wheels and discard cardboard protectors.



STEP 6—Remove rear wheel and cardboard protectors. Remove rubber bands and the front fender.



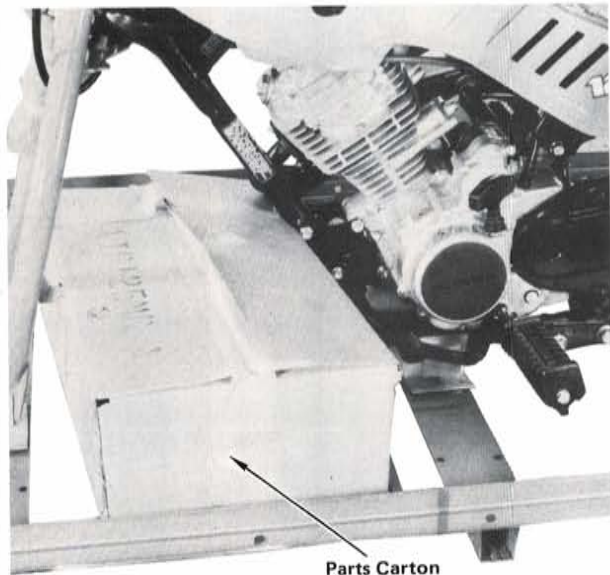
STEP 7—Loosen four bolts attaching handlebar upper holder.



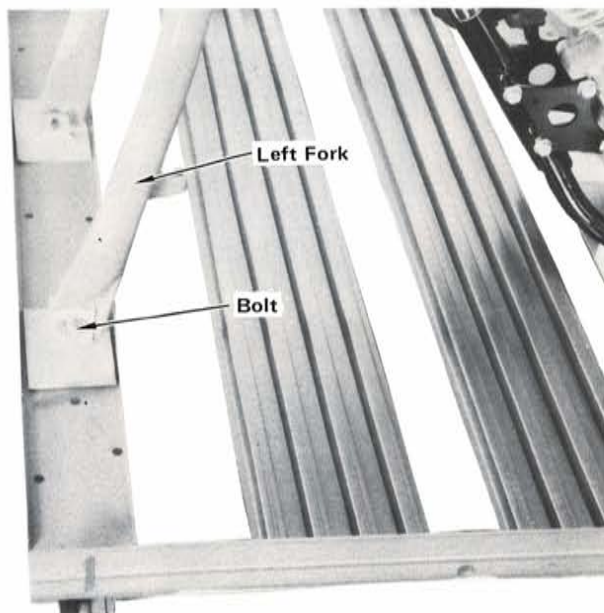
STEP 8—Remove the front shipping bracket by loosening fork bolts. Retighten bolts to the specified torque. Remove the rear shipping bracket by removing the bolt and collar. Discard bolts, brackets and collar.

Torque specification:
6.0 kg-m (44 lb-ft)

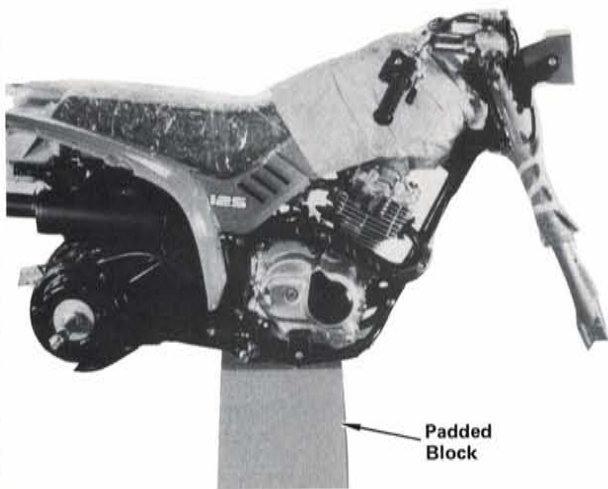
NEW NEW NEW NEW



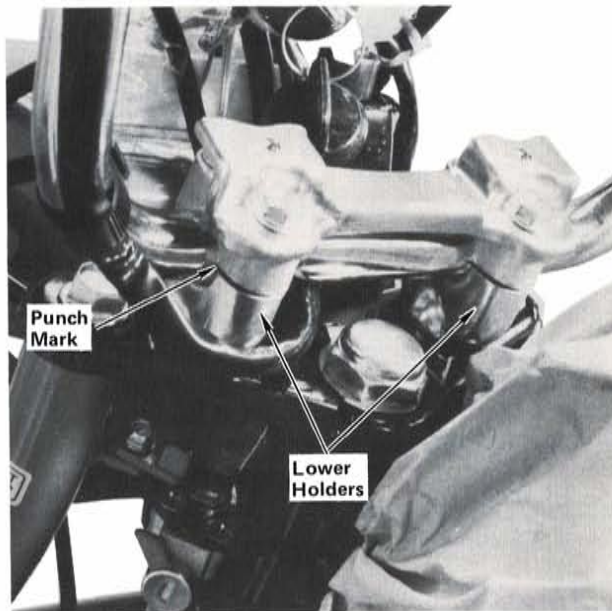
STEP 9—Remove parts carton from crate base.



STEP 10—Remove and discard bolt attaching left fork to crate base.



STEP 11—Place vehicle on a padded block, centered under the engine as shown.



STEP 12—Raise handlebar grips until punch mark on handlebar is aligned with top of lower holder and serrations are aligned with lower holders.



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" on the following page. 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 M/C WARRANTY CLAIM SO 908.

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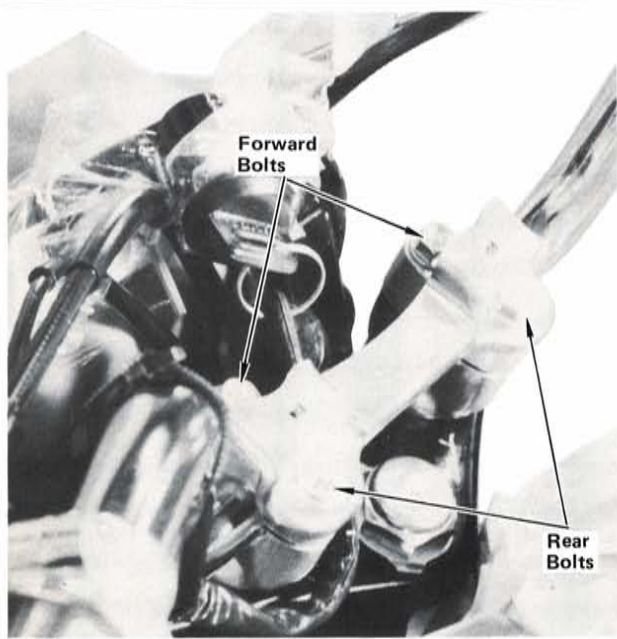
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LOOSE PARTS LIST

The following is a list of items contained in the shipping crate:

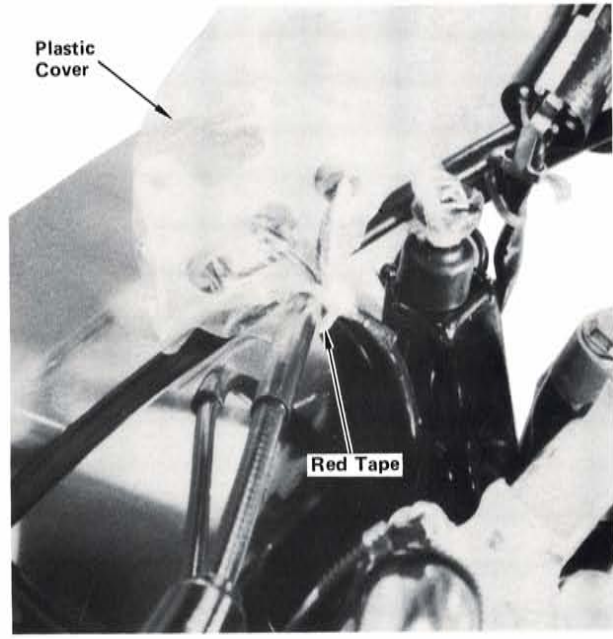
PART NAME	QTY	H/C	PART NUMBER
1. Front wheel	1	-----	4461A-HB6-000
Front brake panel	1	-----	45000-HB6-000
2. Right rear wheel assy	1	-----	4241A-HB6-000
Left rear wheel assy	1	-----	4241B-HB6-000
3. Front axle	1	2131522	44301-HB6-000
4. Taillight assy	1	-----	3370A-HB6-000
5. Front fender	1	2131886	61100-HB6-000
6. Tool box assy	1	2078228	83500-VM6-680
Tool set	1	2132132	89000-HB6-000
Air gauge	1	-----	89301-VM6-680
7. Handlebar cover	1	-----	5320B-HB3-000
8. Emblem	1	2256642	53203-HB3-000
9. Left rear mud guard	1	2132009	80112-HB6-000
10. Right rear mud guard	1	2131993	80111-HB6-000
11. Attaching parts			
Special 6 mm nut	10	2131910	61304-HB3-003
NHC 6 mm	2	0203620	94021-06000-0S
Mud guard screw	10	-----	90102-HB6-000
Fender mounting collar	4	0763946	61104-444-000
5 x 20 mm screw/washer	2	0995936	93894-05020-08
4 x 12 mm tapping screw	2	1685833	93903-24820
6 x 25 mm flange bolt	4	1735323	90108-MJ1-000
7 x 12 mm washer	2	0113654	90501-310-000
8 x 16 mm flange bolt	4	0347641	95700-08016-08
8 x 45 mm flange bolt	1	0583633	95700-08045-08
4 x 40 mm cotter pin	2	-----	94201-4-400
Tool box mounting collar	2	2078251	83511-VM6-680
Left front axle spacer	1	1813468	44312-VM4-680
14 mm U-nut	1	1439249	90305-GE8-003
18 mm axle nut	2	2298685	90305-HB6-000
Skid plate	1	2131696	50355-HB6-000
8 x 12 mm bolt/washer	3	1536960	90156-964-670
Brake adjuster nut B	1	0710921	43459-434-000
Brake arm joint	1	0400945	95015-32001
10 mm U-nut	8	1439249	90304-GE8-003
Front brake cable guide	1	2131621	45467-HB6-000
Fender mount rubber	4	0680678	61103-430-000
Tool box stay A	1	2078269	83513-VM6-680
Tool box stay B	1	2078277	83514-VM6-680
Anchor clip	2	-----	90801-HB6-000
Rear brake rod spring	1	1974328	43467-HA0-000
Tool box mounting collar	1	-----	82512-HB3-000
12. Owner's manual bag	1	2088383	83642-HA0-680
Owner's manual	1		00X31-HB6-600
13. Rear wheel hub	2	1797299	42410-VM6-000
14. Front mud guard	1	2131894	61111-HB6-000
15. Battery electrolyte	1	2087609	31540-HA0-680
16. Throttle tag	1	-----	87600-VM6-680

STEP 13—(Continued)

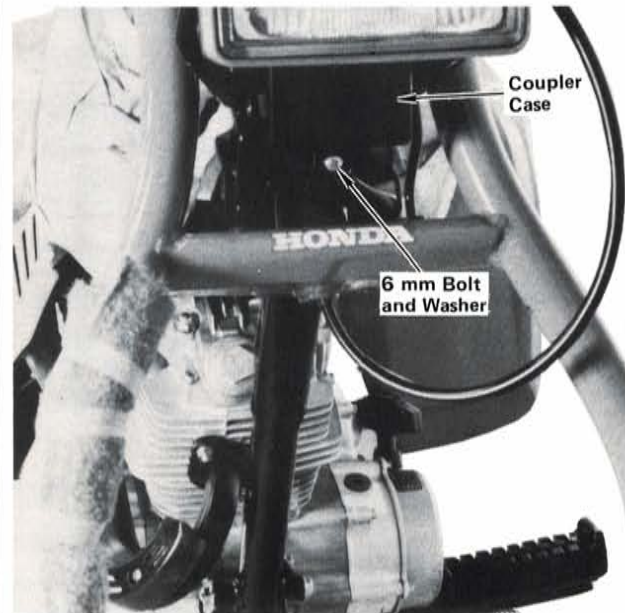


STEP 14—Tighten forward bolts to specified torque first, then tighten rear bolts to same torque.

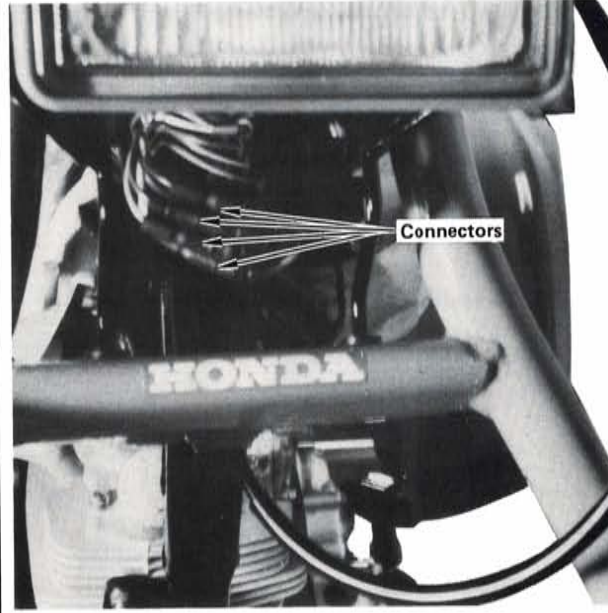
Torque specification:
2.4 kg-m (18 lb-ft)



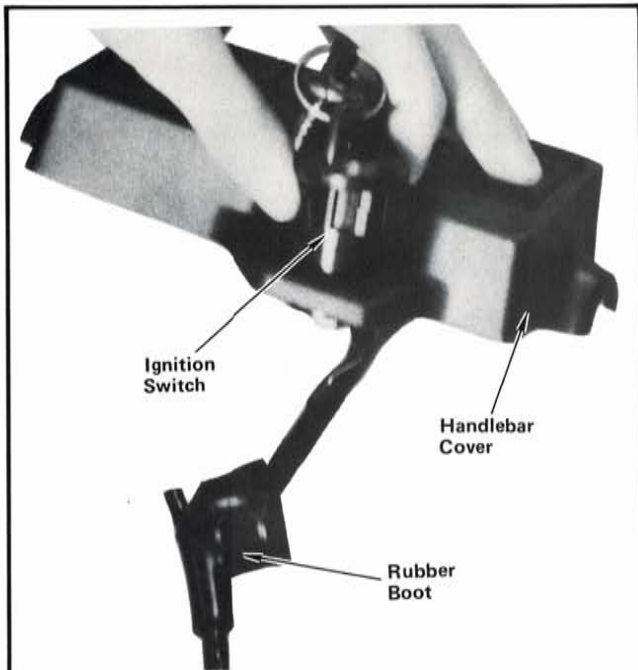
STEP 15—Remove and discard protective plastic cover, red tape holding cables and wire harness.



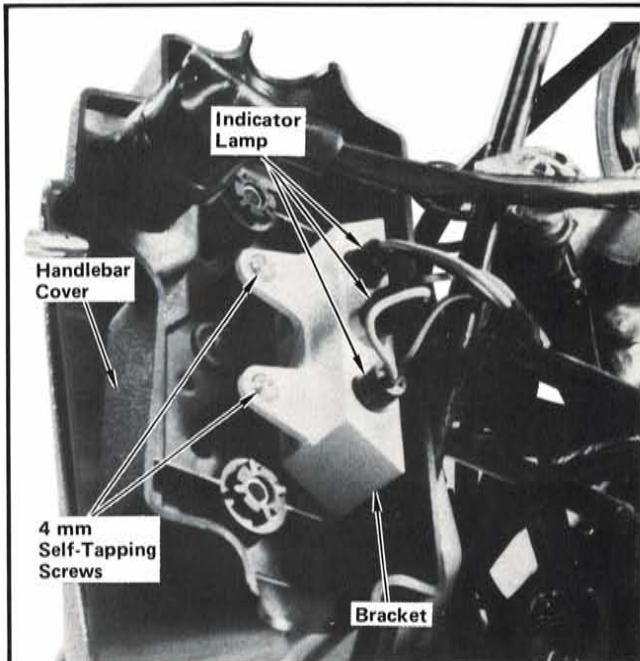
STEP 16—Remove coupler case from under headlight case by removing 6 mm bolt and washer.



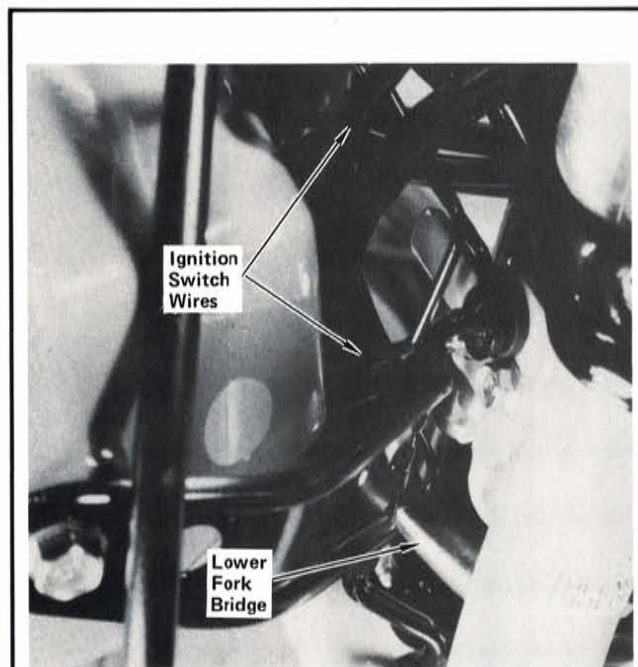
STEP 17—Disconnect ignition switch wires from connectors and remove.



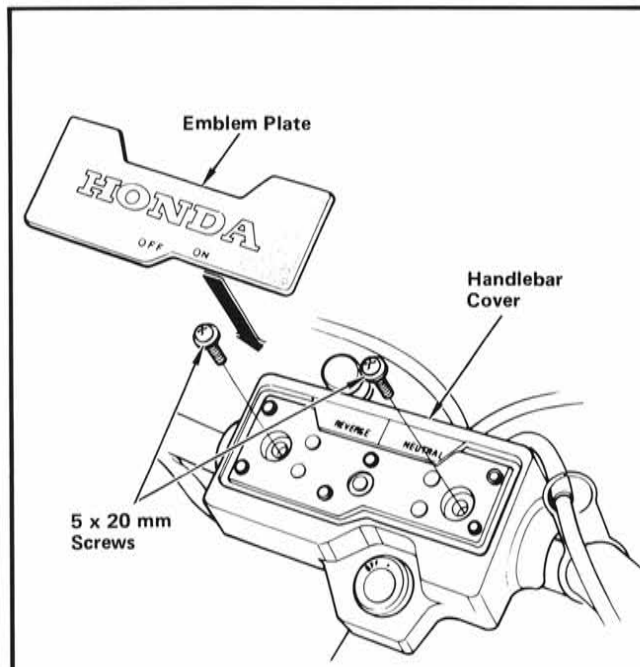
STEP 18—Pull ignition switch wires and rubber boot through hole in handlebar cover. Align the white mark on the ignition switch with the cut-out on the cover and press into place. Push rubber boot into place as shown.



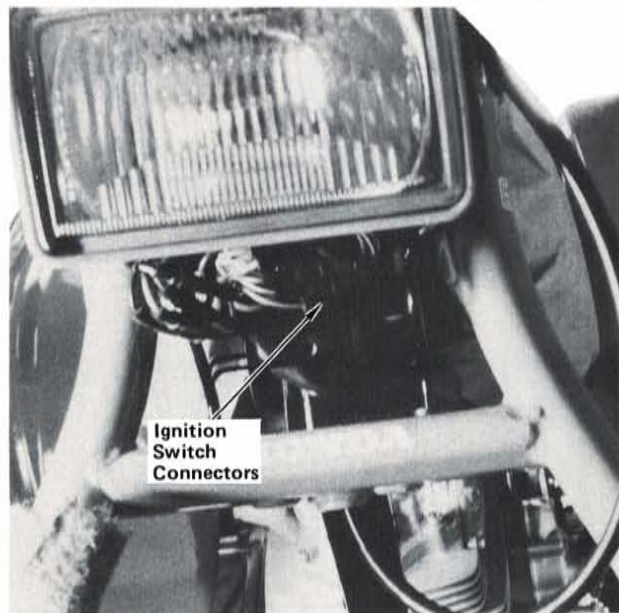
STEP 19—Press indicator lamps into place in the cover from behind as shown. Position lamp bracket onto cover and secure using two 4 mm self-tapping screws as shown.



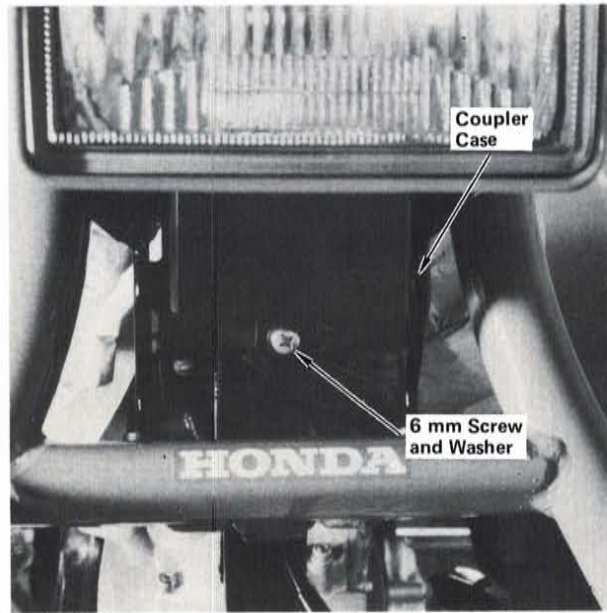
STEP 20—Route ignition switch wires down behind handlebars and in front of the lower fork bridge.



STEP 21—Install handlebar cover onto upper holder using two 5 x 20 mm screws. Tighten screws securely. Press emblem plate onto cover as shown.

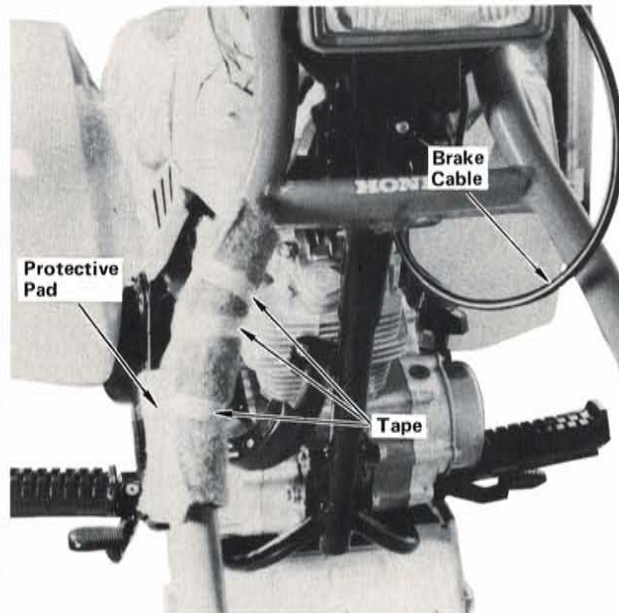


STEP 22—Connect ignition switch wires to harness, by matching color to color.

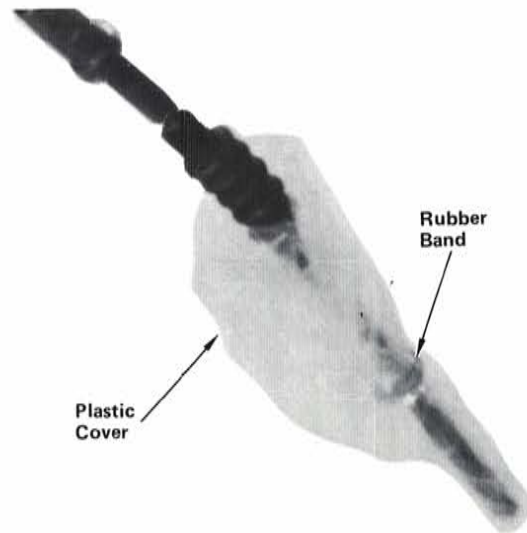


STEP 23—Install coupler case by aligning slots in case with tabs on bracket. Reinstall 6 mm screw and washer removed in Step 16 and tighten securely.

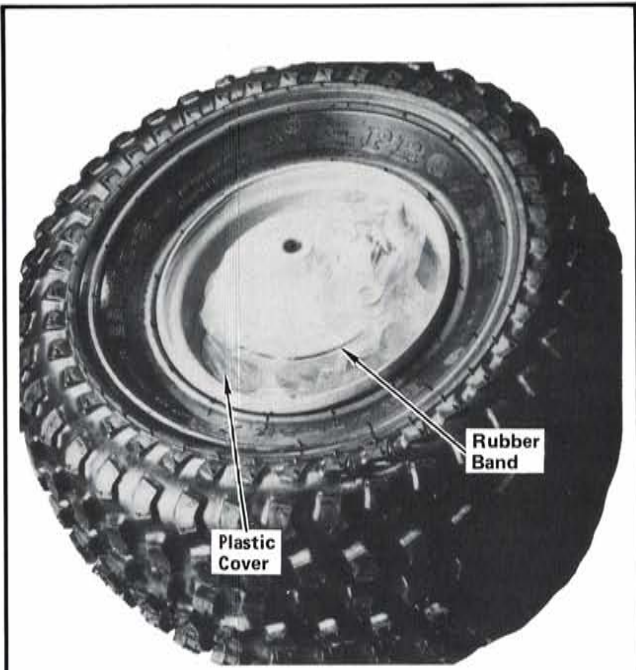
NOTE: Be sure that no wires are pinched between case and bracket.



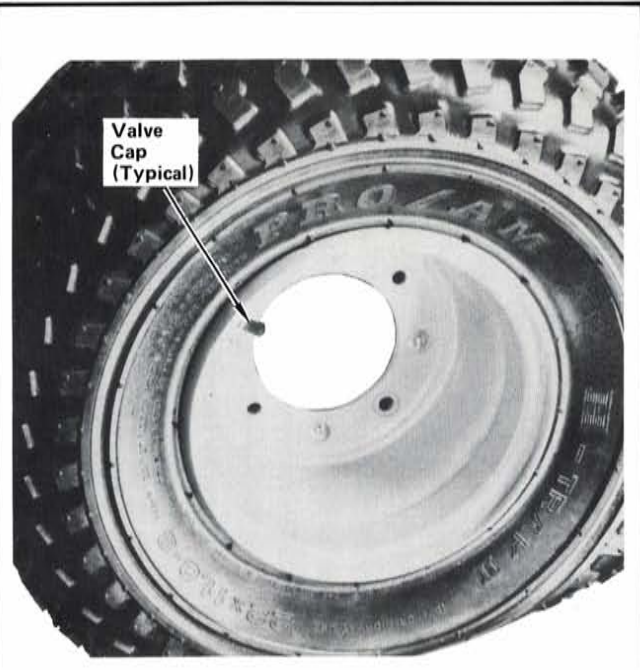
STEP 24—Remove tape and protective pad from right fork leg. Remove end of front brake cable from steering head pipe.



STEP 25—Remove rubber band and plastic cover from end of front brake cable.

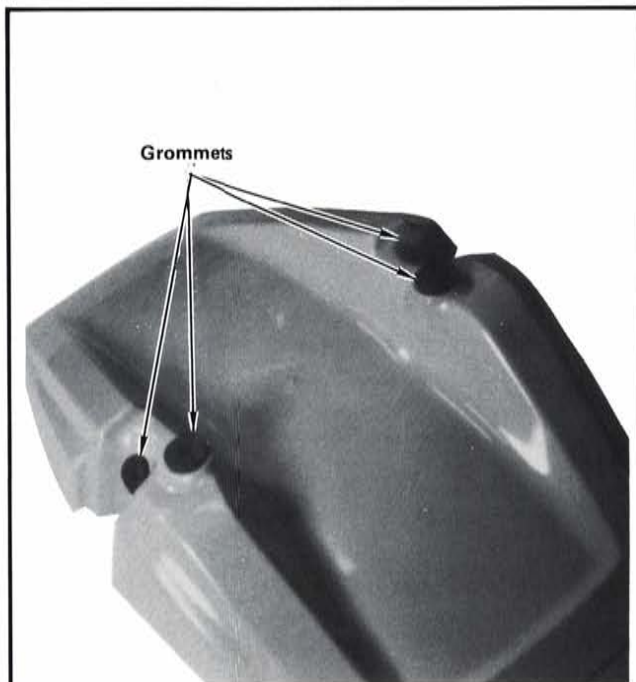


STEP 26—Remove rubber band and plastic cover from front wheel.

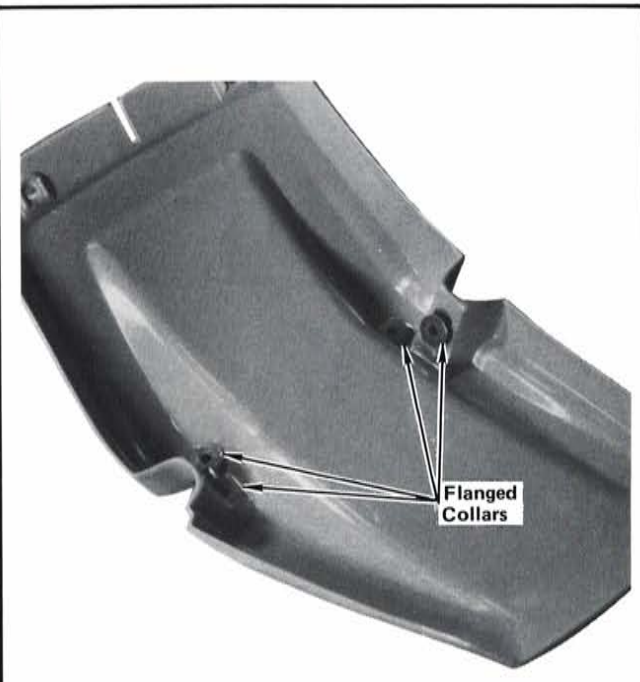


STEP 27—Remove valve cap from each tire, tighten the valve core and inflate tires to proper pressure. Reinstall valve caps.

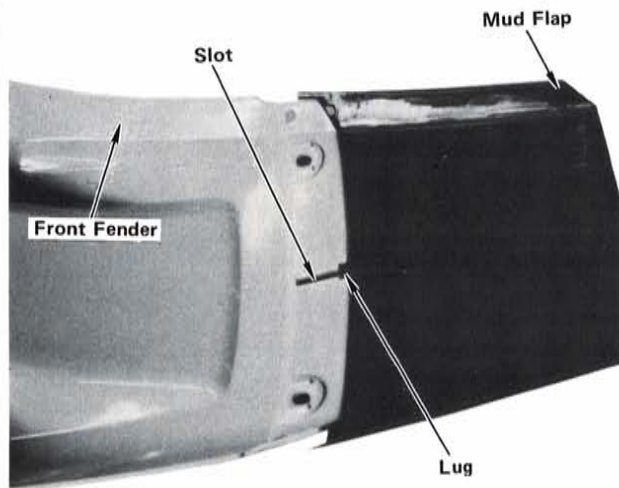
Tire pressure: 2.2 p.s.i.



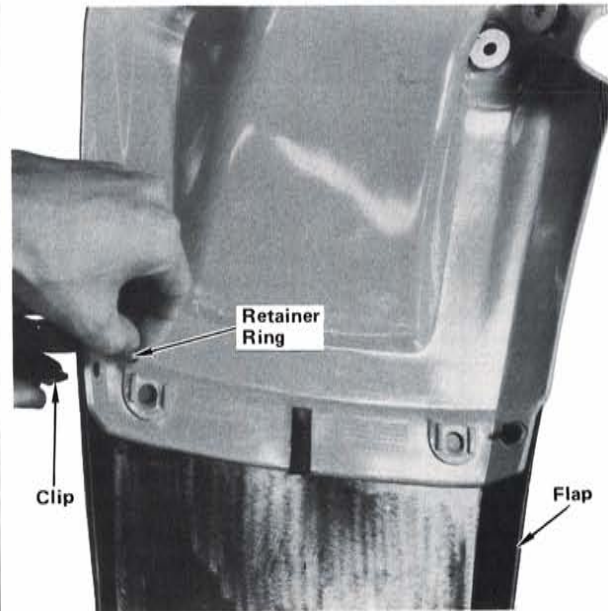
STEP 28—Press four grommets into fender from the top as shown.



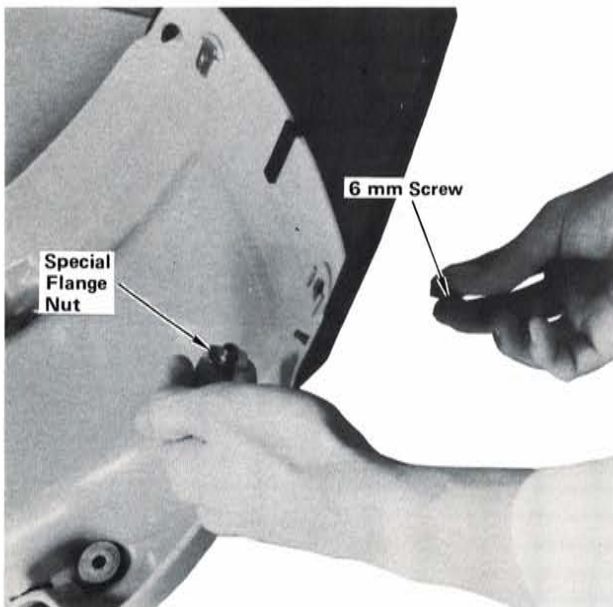
STEP 29—Slide flanged collars into the grommets from the bottom as shown.



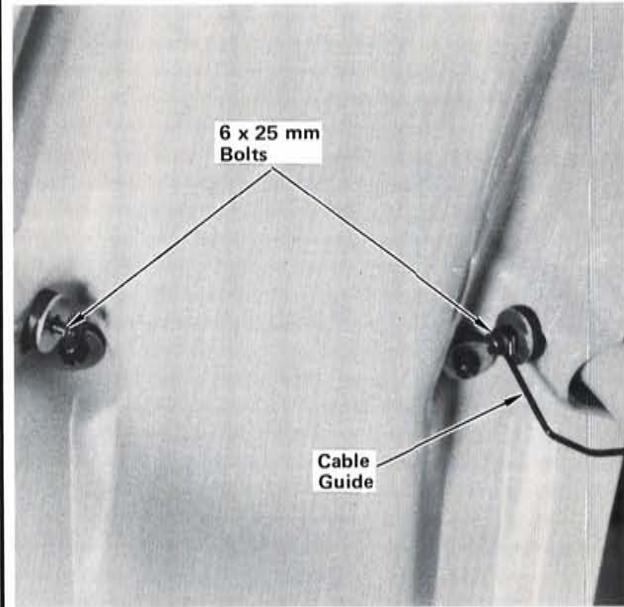
STEP 30—Position mud flap on top of fender, aligning lug on the flap with slot in the fender as shown.



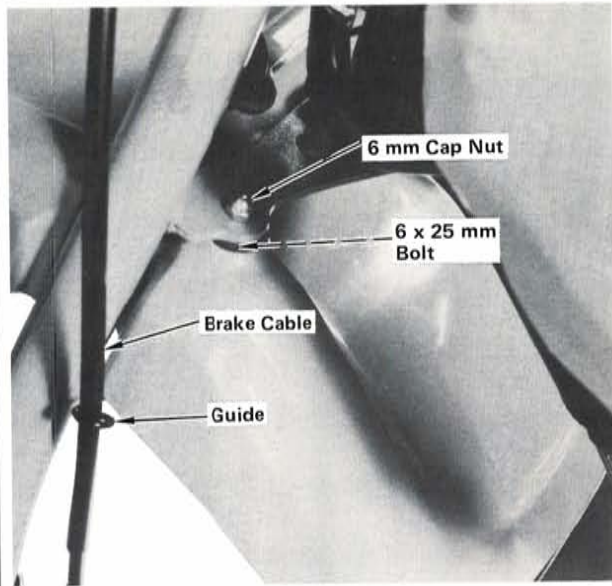
STEP 31—Attach mud flap by inserting a clip through flap into retaining ring on each side.



STEP 32—Secure mud flap by using two 6 mm screws and special flange nuts. Insert screws from the top into special nuts underneath.

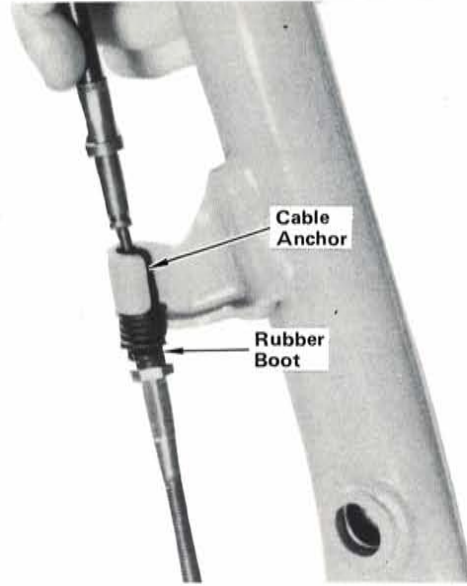


STEP 33—Position front fender between fork legs. Attach fender and cable guide on the left side, using two 6 x 25 mm bolts as shown.

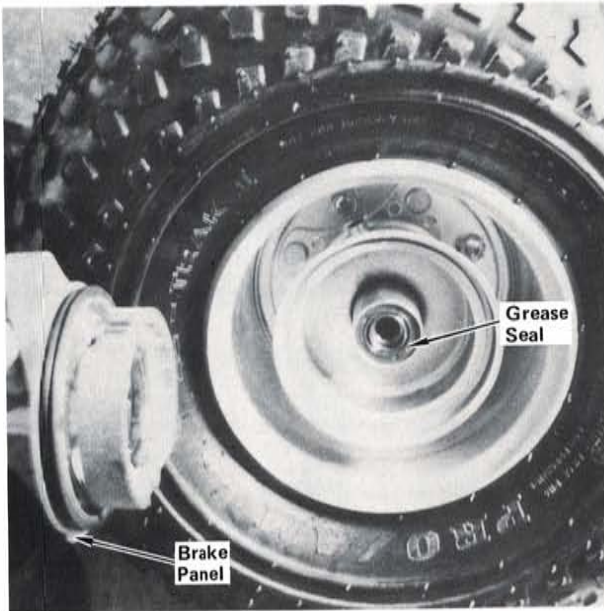


STEP 34—Install a 6 x 25 mm bolt from the bottom up through fender and bracket each side. Attach using a 6 mm cap nut each side. Tighten bolt to specified torque. Route front brake cable down through cable guide.

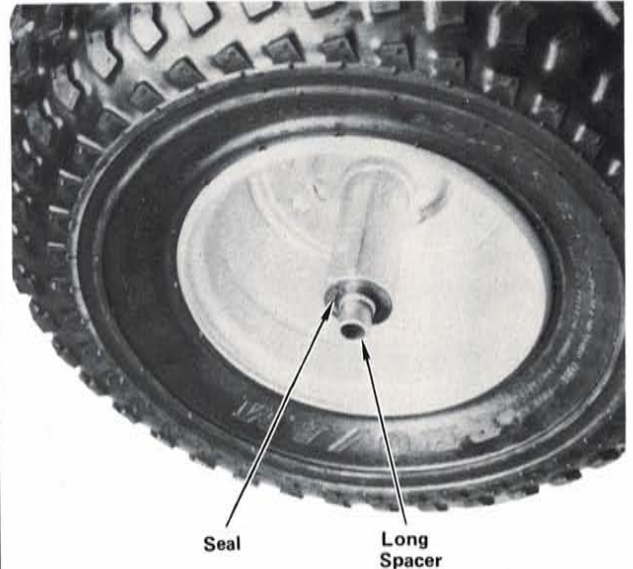
Torque specification:
1.0 kg-m (7 lb-ft)



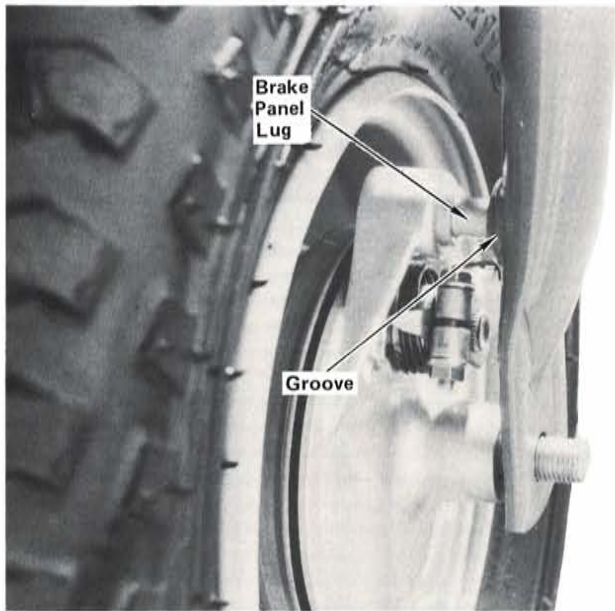
STEP 35—Place front brake cable end into cable anchor on left fork leg. Place rubber boot over cable nut.



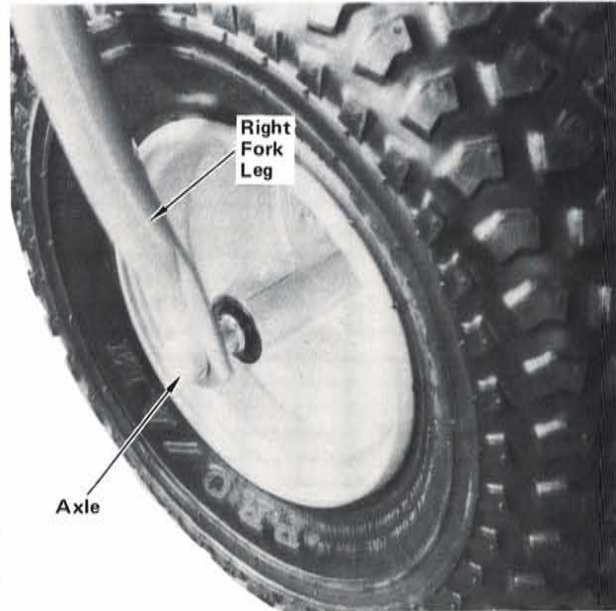
STEP 36—Remove brake panel from front hub. Check that grease seal in hub is clean and full of grease. Insert panel back into wheel.



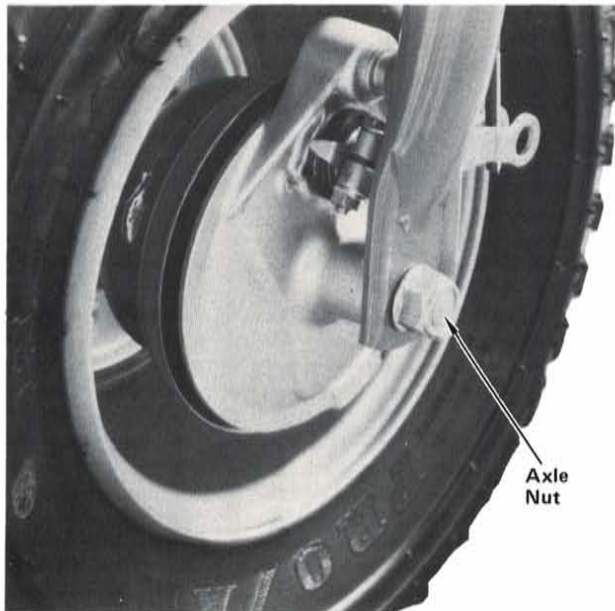
STEP 37—Insert long axle spacer into grease seal opposite brake drum.



STEP 38—Position front wheel between fork legs, with brake panel on the left side. Align brake panel lug with groove in fork leg.

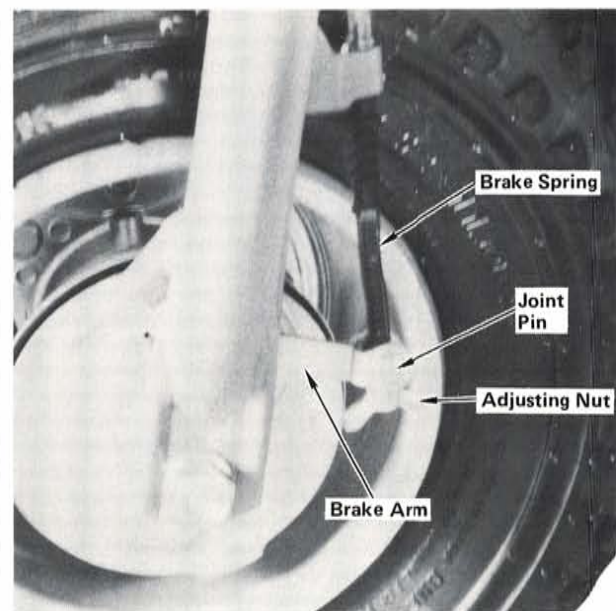


STEP 39—Insert axle from opposite side, through right fork leg, wheel hub, brake panel and into left fork leg.

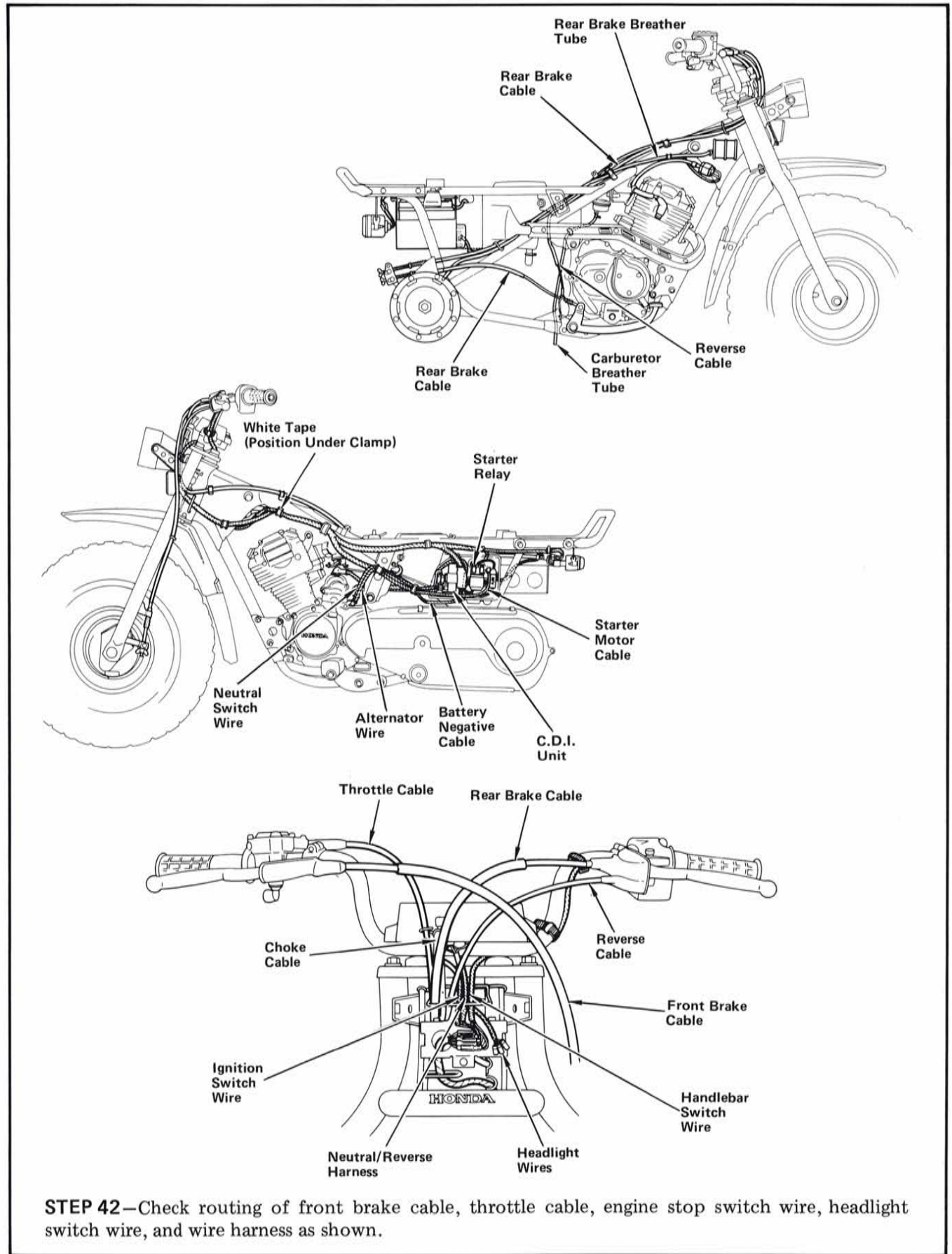


STEP 40—Install axle nut and tighten to specified torque.

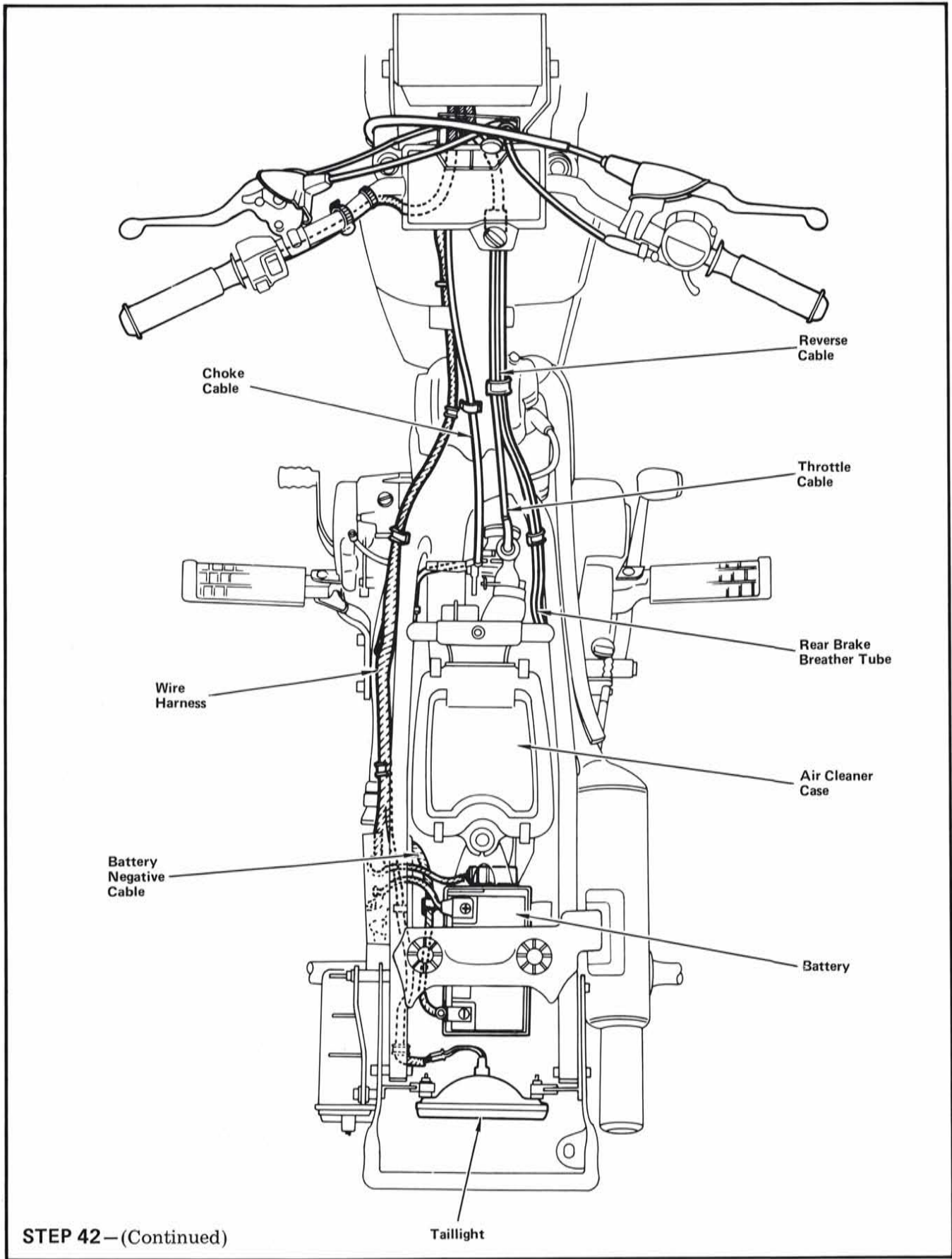
Torque specification:
11 kg-m (80 lb-ft)



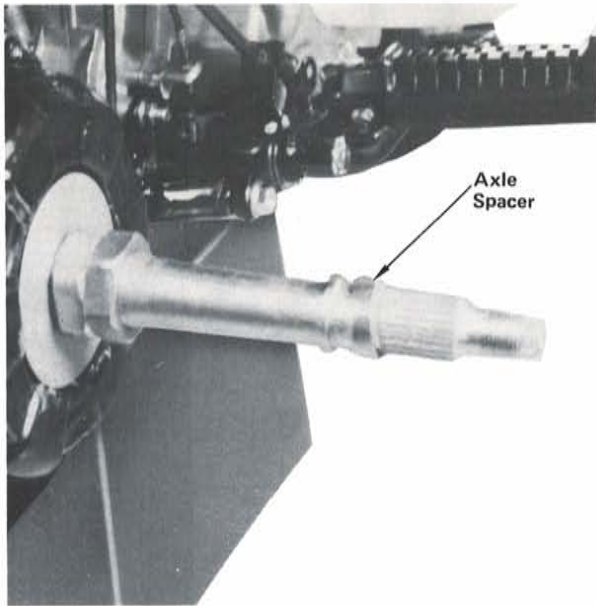
STEP 41—Place joint pin into brake arm. Slip brake spring over end of brake cable and insert cable end through hole in joint pin. Screw adjusting nut onto cable end and adjust brakes as described in Steps 62, 63 and 64.



STEP 42—Check routing of front brake cable, throttle cable, engine stop switch wire, headlight switch wire, and wire harness as shown.

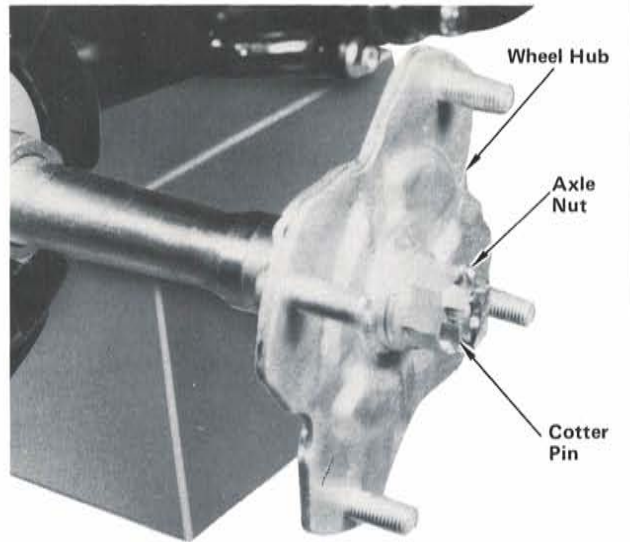


STEP 42—(Continued)



Axle Spacer

STEP 43—Slide short spacer onto right rear axle.



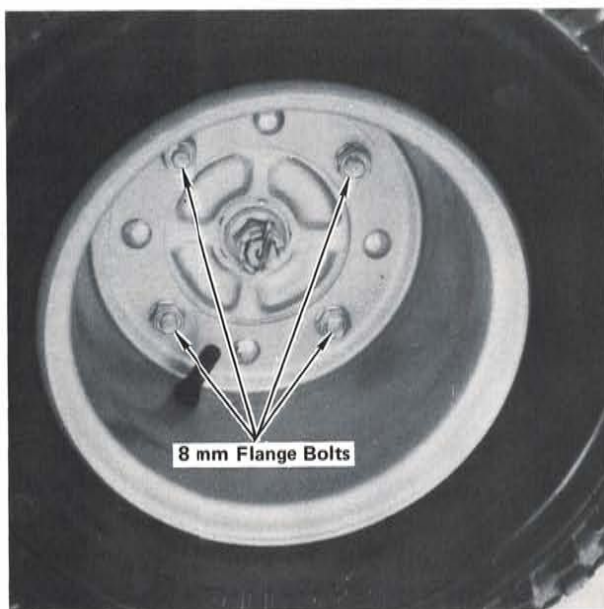
Wheel Hub

Axle Nut

Cotter Pin

STEP 44—Slide wheel hubs onto axles, both sides and install 14 mm nuts onto each side. Tighten nuts to specified torque and secure with cotter pins, both sides.

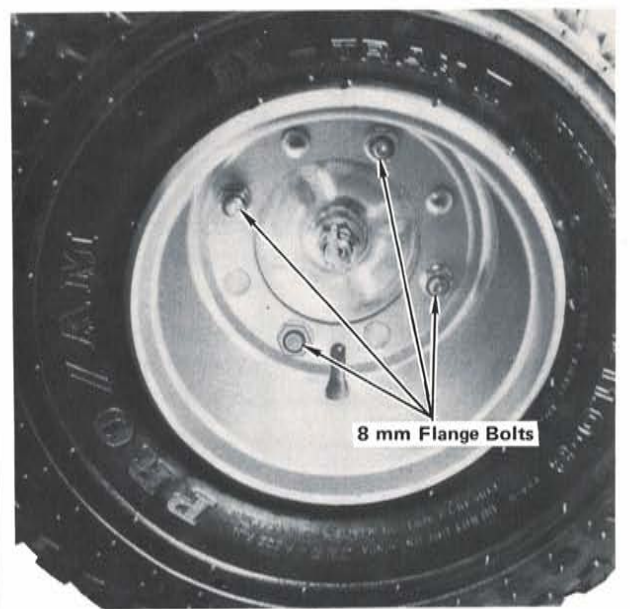
Torque specification:
9 kg-m (65 lb-ft)



8 mm Flange Bolts

STEP 45—Install rear wheels using four 8 mm flange nuts, but don't tighten at this time.

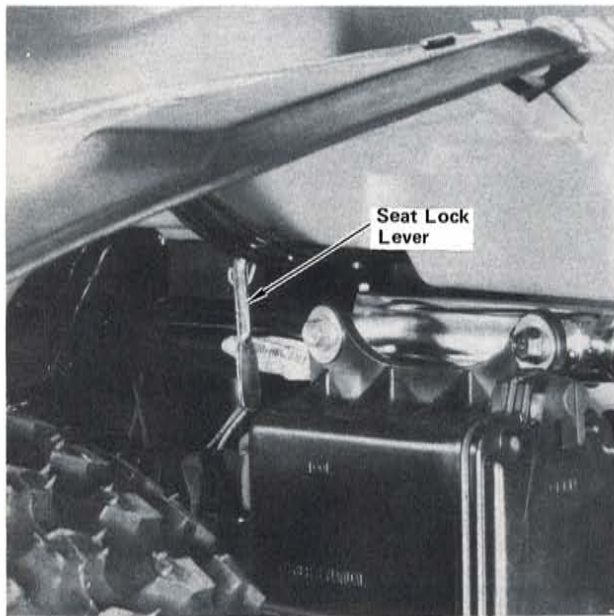
NOTE: Be sure the valve stems are on the outside and the tread direction points to the front.



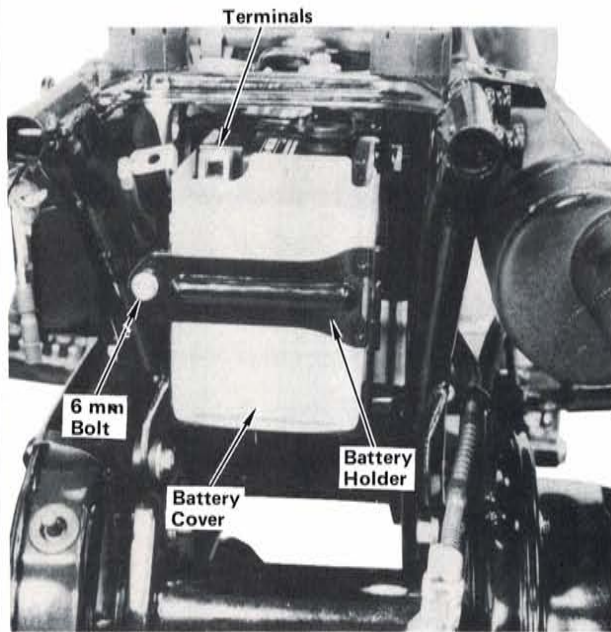
8 mm Flange Bolts

STEP 46—Remove the block from under vehicle and tighten wheel nuts to specified torque.

Torque specification:
5.5 kg-m (40 lb-ft)



STEP 47—Push seat lock forward and remove the seat/fender.



STEP 48—Remove 6 mm bolt and battery tray holder. Remove battery and cover.

STEP 49—Service the battery as described in battery booklet or on electrolyte container battery preparation label.

NOTE: If machine is not being prepared for immediate delivery, store the battery in accordance with instructions contained in Service Letter #48.

WARNING The battery electrolyte contains sulfuric acid. Protect your eyes, skin and clothing. In case of contact, flush thoroughly with water.

If electrolyte gets in your eyes, flush them thoroughly with water and get prompt medical attention.

CAUTION:

- Remove battery from vehicle whenever filling it with electrolyte.
- Do not use battery liquids other than those furnished with the battery.
- After filling the battery, check that there is no electrolyte left in the container.
- Dispose of the container properly.



Battery



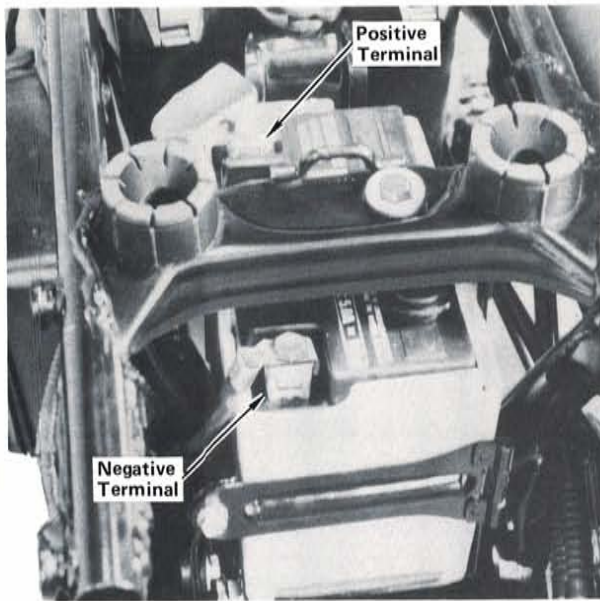
Battery Cover



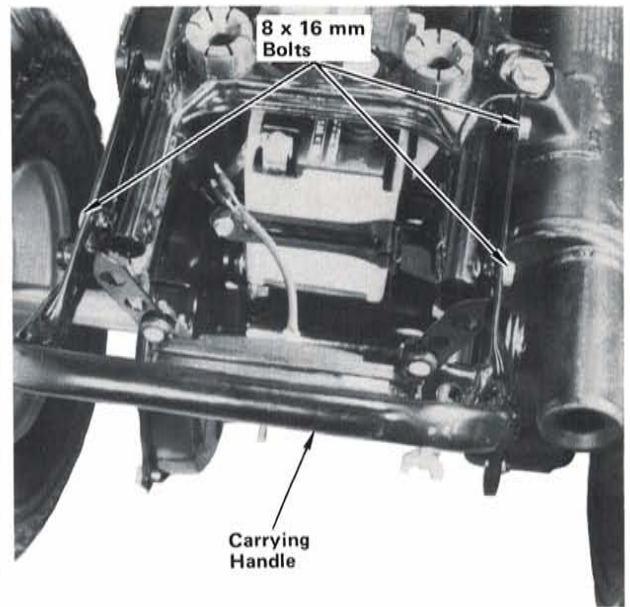
Instructions

Electrolyte Container

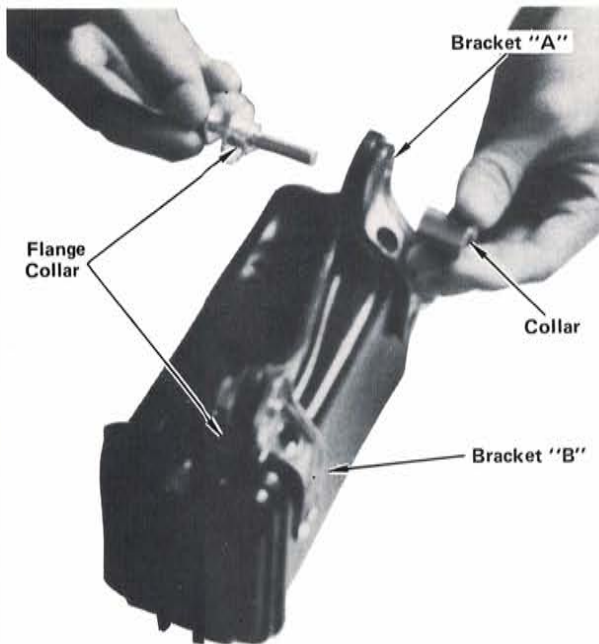
STEP 50—Install battery and cover in the compartment, with the terminals on the left side. Reinstall battery holder using the 6 mm bolt removed at Step 48.



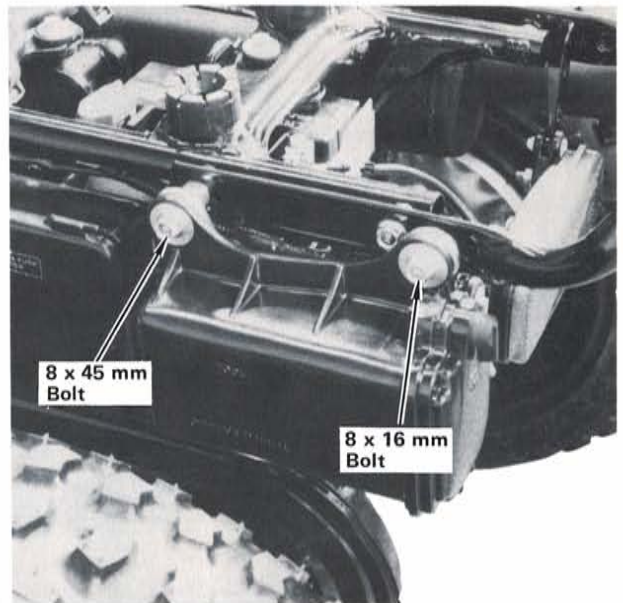
STEP 51—Connect positive (+) battery cable to battery first, then connect negative (-) cable. Tighten bolts securely and coat terminals with clean grease. Slip positive terminal cover into place.



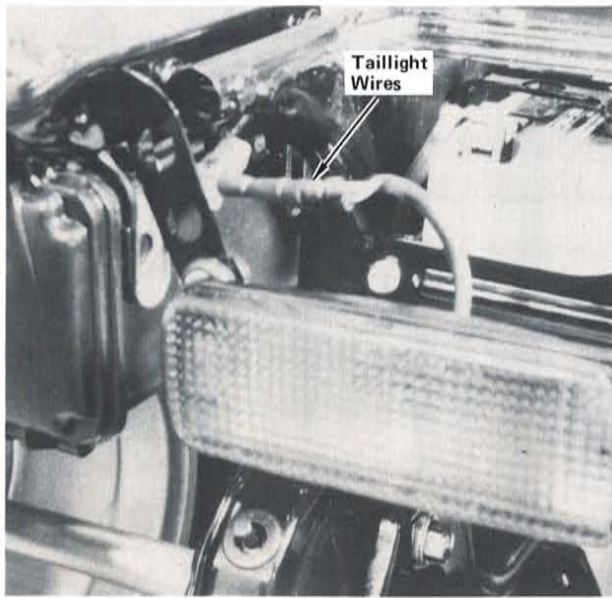
STEP 52—Position carrying handle, curved end up, and attach using two 8 x 16 mm bolts on right side and one on the left.



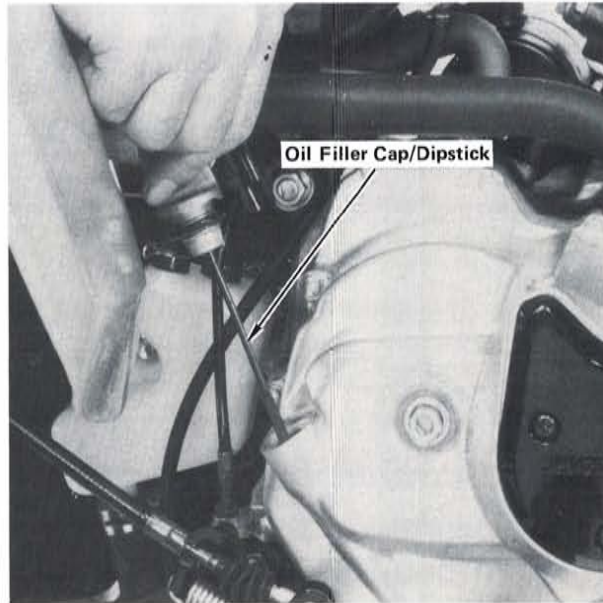
STEP 53—Place attaching hardware onto tool box. A flange collar, collar and bracket A, to the front; a flange collar and bracket B, to the rear.



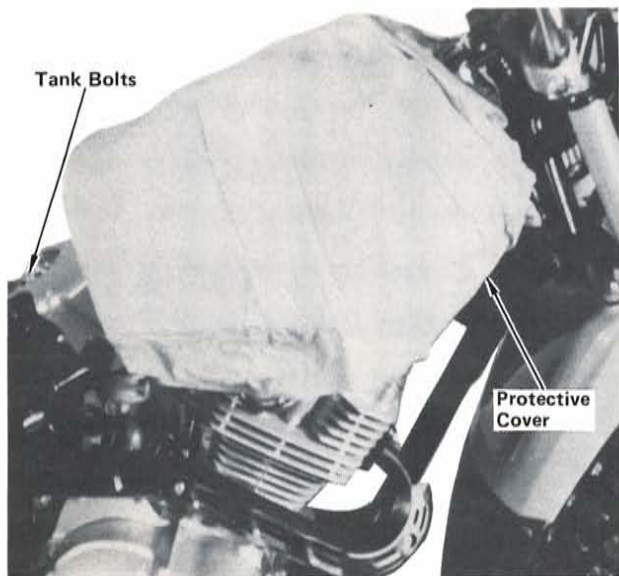
STEP 54—Attach tool box to carrying handle using a 8 x 45 mm bolt at the front and a 8 x 16 mm bolt at the rear.



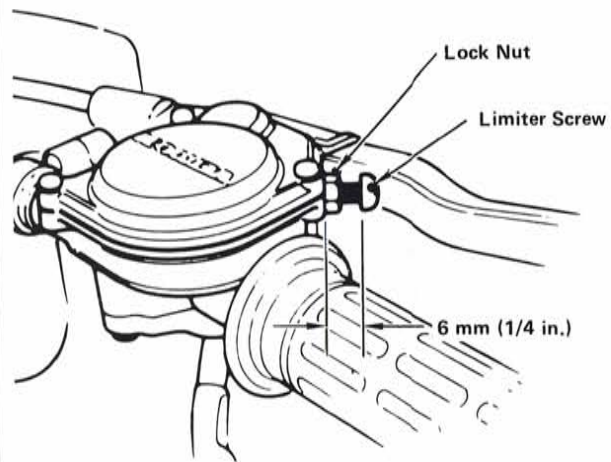
STEP 55—Connect the taillight wires to the harness, color to color.



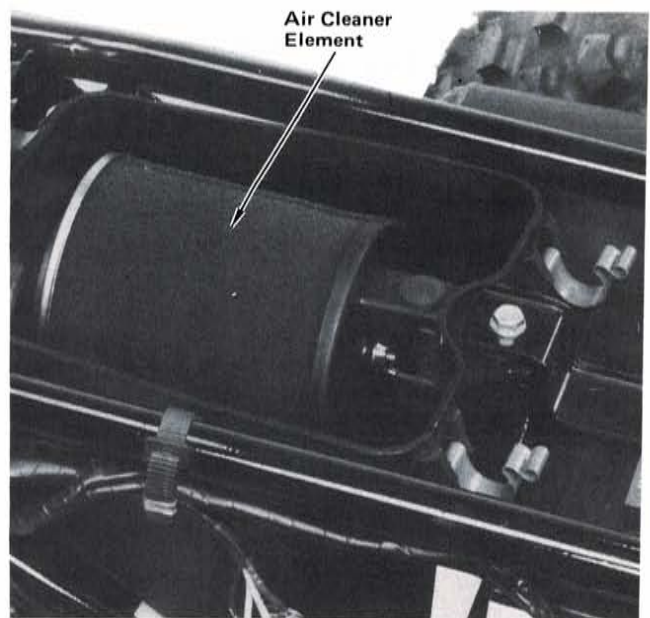
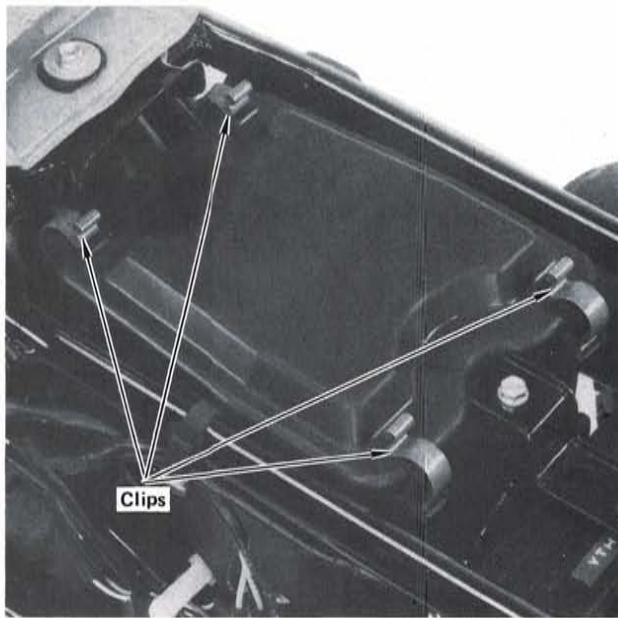
STEP 56—Remove oil filler cap/dipstick and fill crankcase with recommended oil as noted in owner's manual.



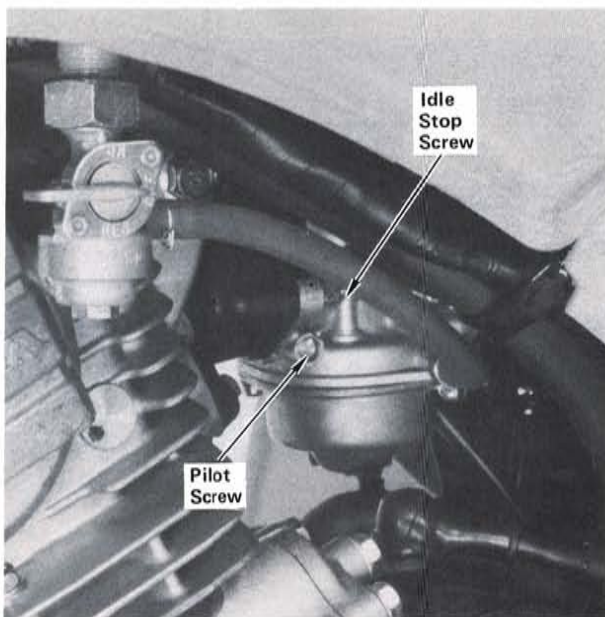
STEP 57—Remove protective cover from gas tank and drain per instructions noted in owner's manual. Disconnect fuel lines, remove one bolt at the rear of tank and remove tank. Flush and inspect tank, then reinstall, using the one bolt. Tighten bolts securely. Reinstall fuel lines and drain residual fuel from carburetor.



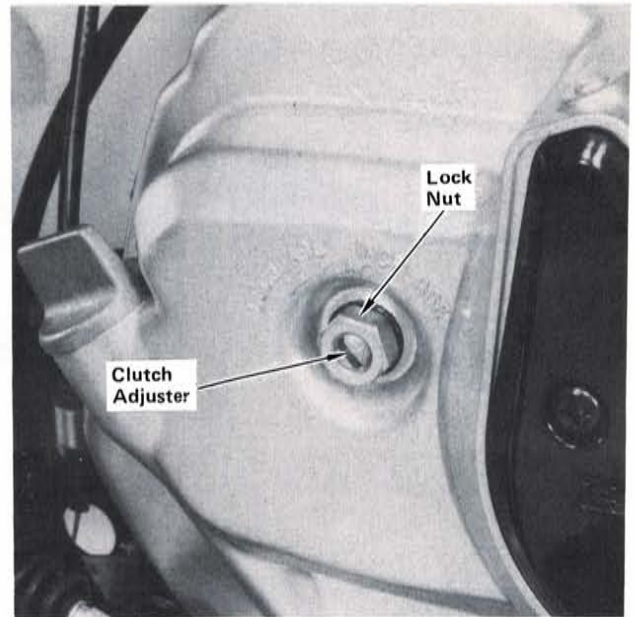
STEP 58—Loosen the speed limiter lock nut and adjust the limiter screw to a distance of about 6 mm (1/4 in.). Tighten lock nut securely.



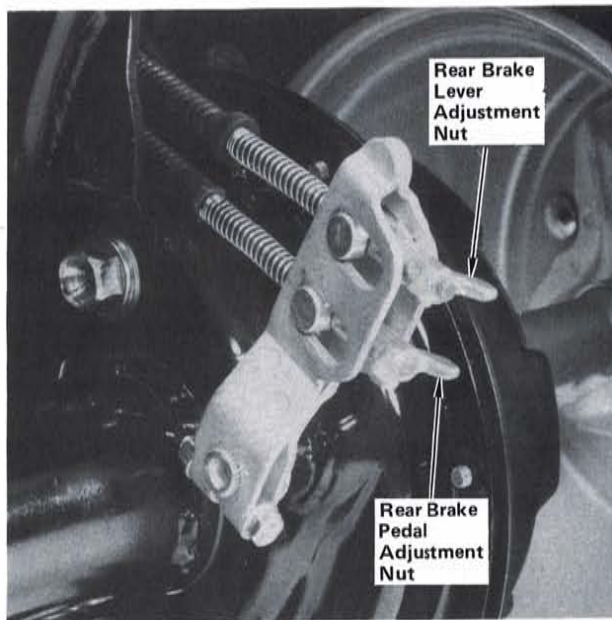
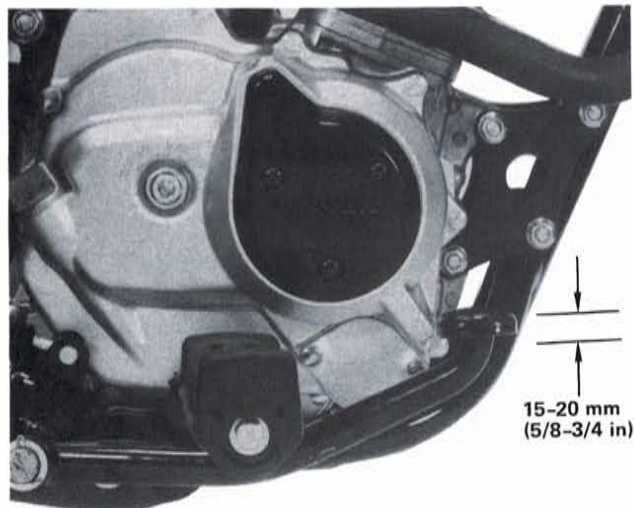
STEP 59—Loosen four clips and remove air cleaner cover. Remove and check air cleaner element; if necessary, clean as described in owner's manual. Reinstall element, cover and clips.



STEP 60—Connect a tachometer to the engine. Start and warm up the engine to operating temperature. Adjust idle speed to $1,500 \pm 100$ rpm using the idle stop screw. Stop engine and remove tachometer.

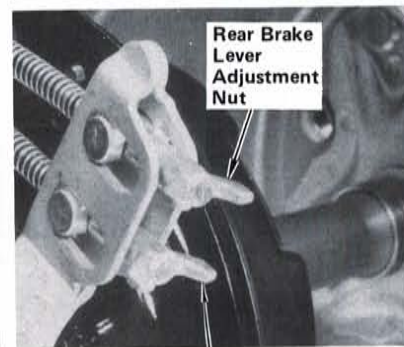
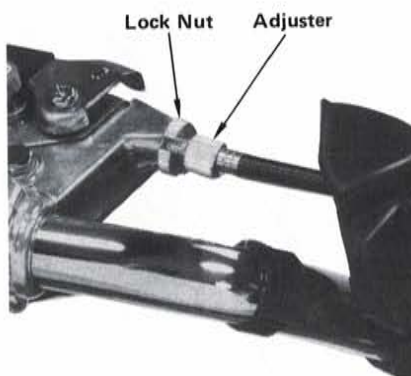
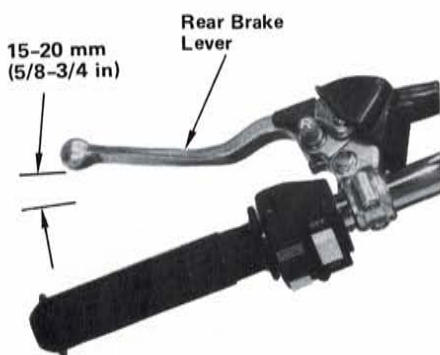


STEP 61—Check clutch for proper operation. If adjustment is required, proceed as follows; loosen lock nut and turn clutch adjuster counter-clockwise until resistance can be felt, then back off adjuster $1/8 - 1/4$ of a turn and tighten lock nut. Recheck clutch operation.



STEP 62—Check rear brake free play. If adjustment is required, use the adjustment nut on the rear brake rod.

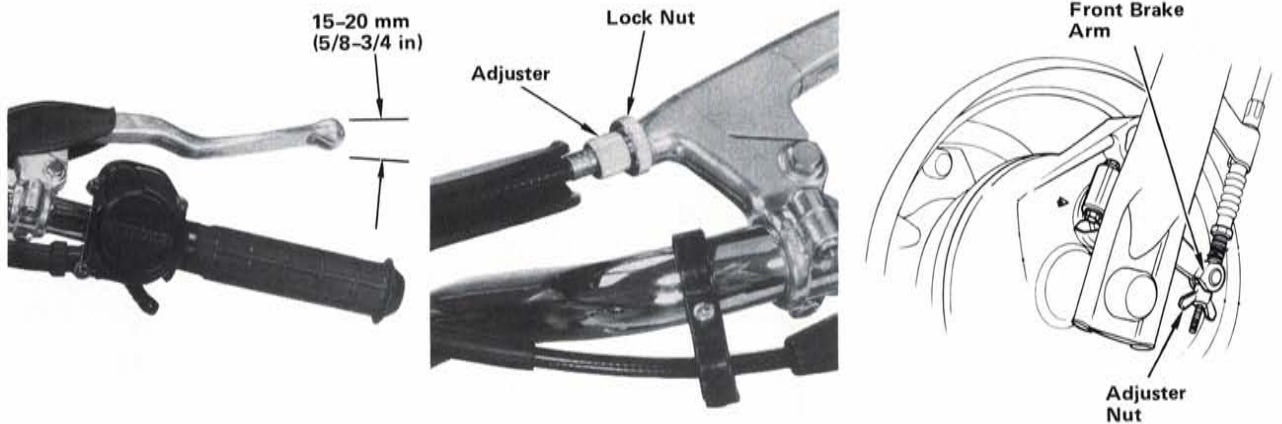
Free play: 15-20 mm (5/8 – 3/4 in).



Rear Brake Lever Adjustment Nut

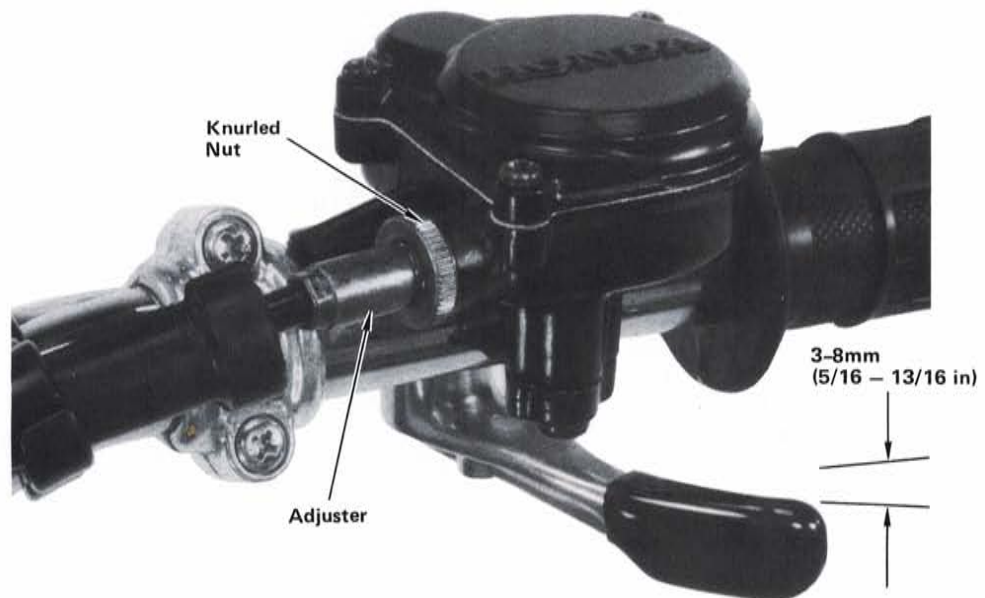
STEP 63—Block up the vehicle and spin rear wheels. Apply the rear hand brake and measure the distance it moves until engagement. The distance should be 15 - 20 mm (5/8 – 3/4 in). If large adjustment is required, make them at rear brake arm; small adjustments are made at the handlebar lever.

Free play: 15-20 mm (5/8 – 3/4 in).



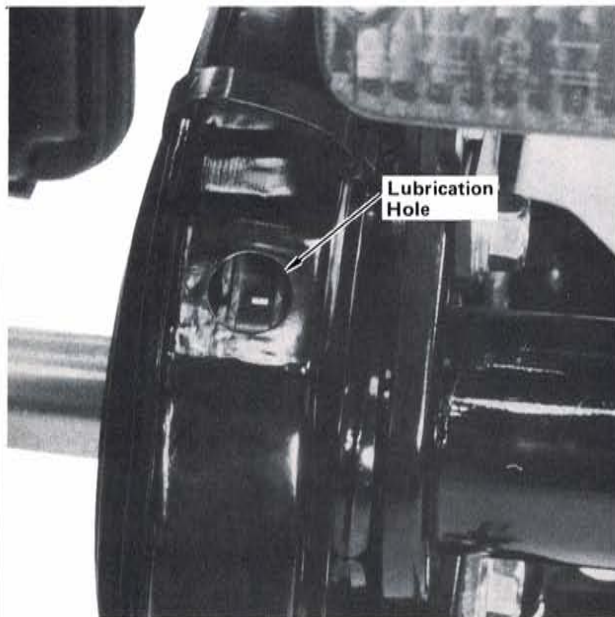
STEP 64—Spin the front wheel and measure front brake lever free play. Free play should be between 15-20 mm (5/8 – 3/4). If large adjustment is required, make them at front brake arm; small adjustments are made at the handlebar lever. Remove block from under the vehicle.

Free play: 15-20 mm (5/8 – 3/4 in).

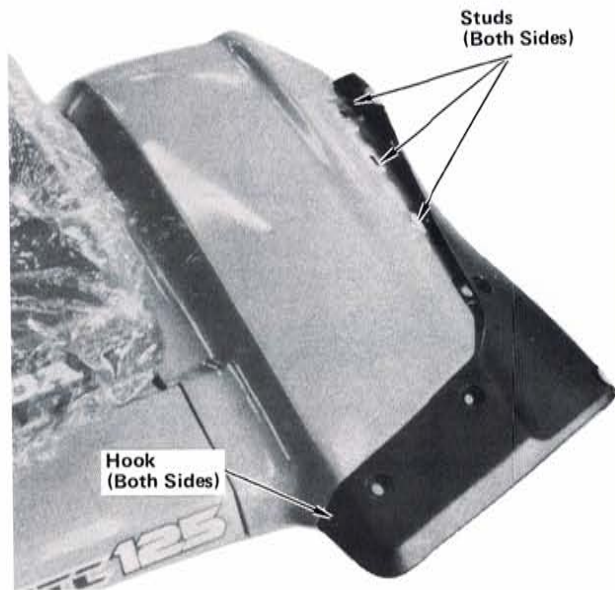


STEP 65—Check throttle free play. Adjust by loosening knurled nut turning cable adjuster. Tighten nut after any adjustment.

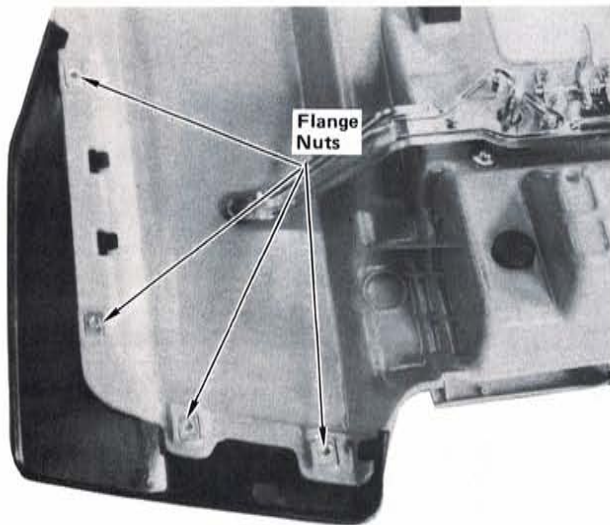
Free play: 3-8 mm (5/16 – 13/16 in).



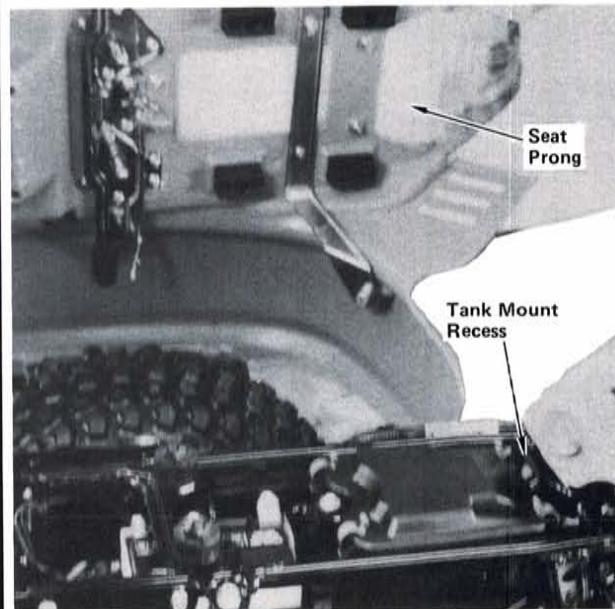
STEP 66—Remove lubrication hole cap and lubricate drive chain using SAE 90 gear oil. Reinstall cap.



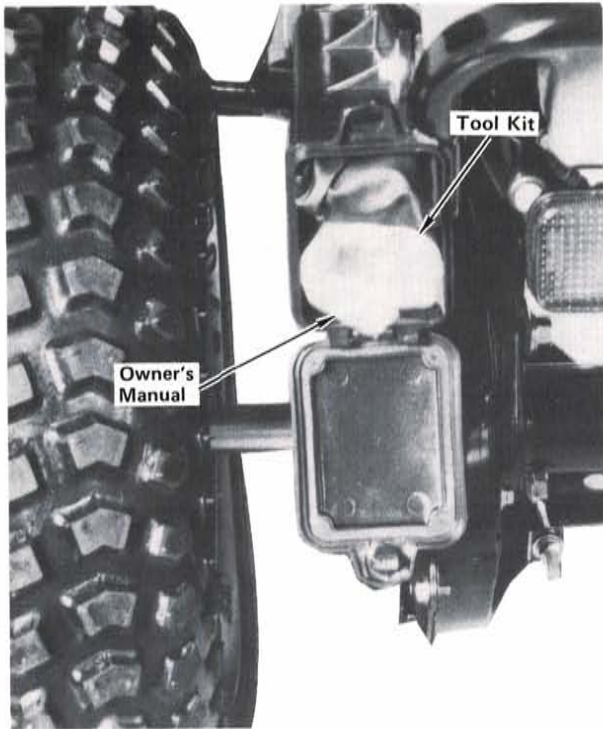
STEP 67—Install both mud flaps onto rear fender by inserting studs on flaps into holes in fender and placing flap end hooks into fender as shown.



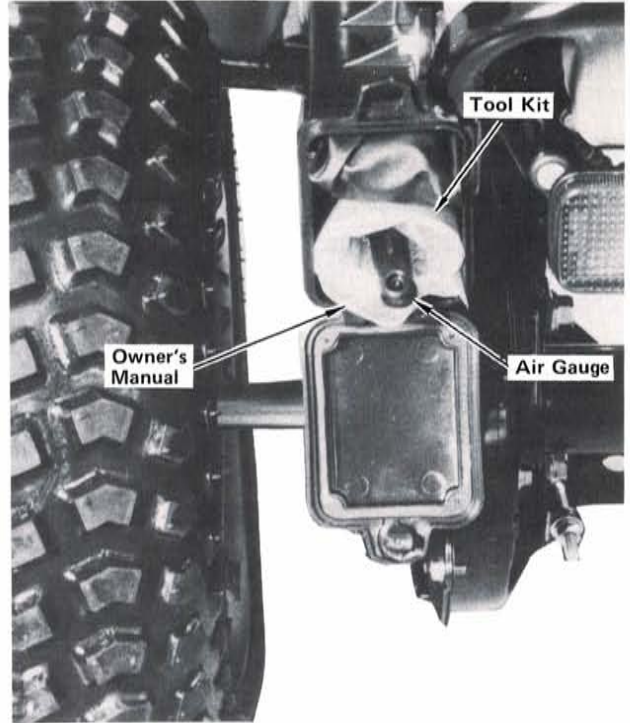
STEP 68—Press flange nuts into holes in rear fender and secure flaps to fender using four mud guard screws, each side.



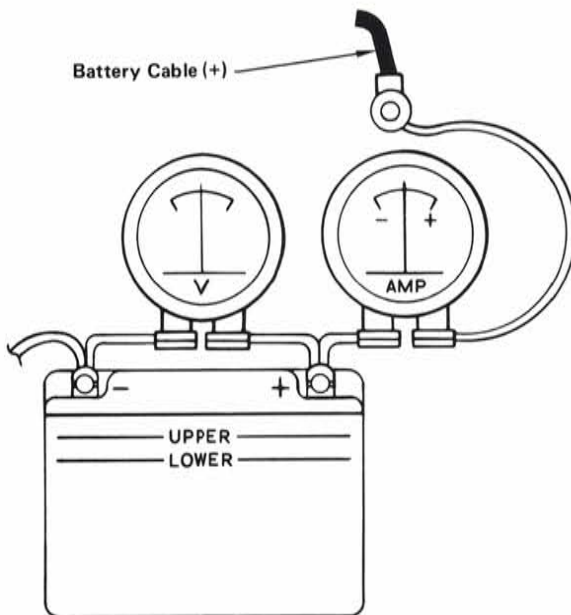
STEP 69—Install rear seat/fender by inserting front prong into recess under fuel tank mount and pressing down on the rear of seat until latch engages.



STEP 70—Open tool box and place vinyl bag with owner's manual into tool box.



STEP 71—Insert tool kit and air pressure gauge into tool box and close lid.



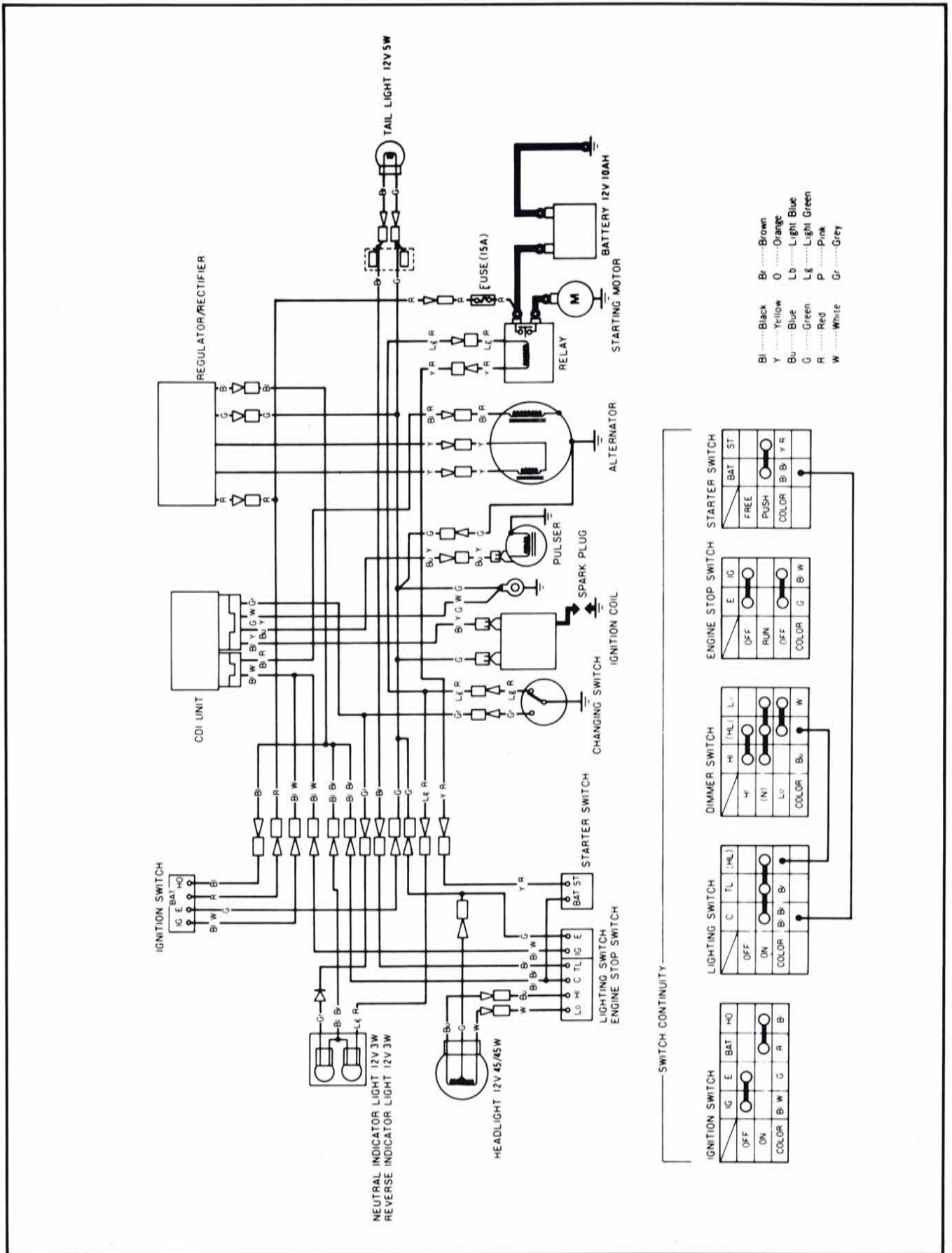
STEP 72—Check battery charging system (volts and amperes) at the battery, as described in the shop manual.

CAUTION

REMOVE BATTERY AND MAINTAIN IN FULLY CHARGED CONDITION UNLESS VEHICLE IS TO BE DELIVERED IMMEDIATELY. REFER TO SERVICE BULLETIN SL NO. 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
Front fork bolts	-----	6.0 kg-m (44 lb-ft)
Handlebar holder bolts	-----	2.4 kg-m (18 lb-ft)
Carrying handle bolts	10 x 180 mm	4.4 kg-m (32 lb-ft)
Rear wheel flange nuts	8 mm	5.5 kg-m (40 lb-ft)
Rear axle nuts	14 mm	9.0 kg-m (65 lb-ft)
Front fender bolts	6 x 20 mm	1.0 kg-m (8 lb-ft)
Front axle nuts	12 mm	11.0 kg-m (80 lb-ft)
Mud flap nuts	6 mm	0.8 kg-m (6 lb-ft)
Carrying handle	6 mm	2.7 kg-m (20 lb-ft)



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

PRE-DELIVERY SERVICE CHECK LIST

- | | |
|--|---|
| <input type="checkbox"/> Adjust front and rear brakes, check cable routing and check operation. | <input type="checkbox"/> Check security of all nuts, bolts, and other fasteners. |
| <input type="checkbox"/> Fill crankcase with recommended oil. | <input type="checkbox"/> Check to ensure that all applicable recall and product update campaigns are complied with. |
| <input type="checkbox"/> Remove and inspect fuel tank, drain and flush. | <input type="checkbox"/> TEST RIDE: Check performance, handling, and operation. |
| <input type="checkbox"/> Drain residual fuel from carburetor. | <ul style="list-style-type: none">• Transmission: high-low gear range selector, and clutch: Ease of shifting, clutch operation, etc.• Acceleration: Smoothness, etc.• Cruising: Smoothness, etc.• Handling: Stability and cornering.• Brakes: Smoothness and stopping power.• Idling: Smoothness, throttle response, and return to idle.• Recheck idle speed after 10 minutes of stop and go operation.• Upon completion of test ride, check for fuel and oil leaks. |
| <input type="checkbox"/> Reinstall fuel tank, fill, turn on petcock, and check for leaks. | |
| <input type="checkbox"/> Check air cleaner element. Oil if necessary. | |
| <input type="checkbox"/> Adjust idle speed. | |
| <input type="checkbox"/> Check throttle lever free play, cable routing, and operation in all steering positions. | |
| <input type="checkbox"/> Lubricate drive chain, if necessary. | |
| <input type="checkbox"/> Check tire pressure. | |
| <input type="checkbox"/> Inspect electrical components for proper operation and adjustment. | |
| <ul style="list-style-type: none">• Headlight switch.• Headlight: Adjust high beam aim.• Taillight.• Engine stop switch.• Starter.• Battery charging. | |

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MODIFICATIONS WHICH YOU HAVE MADE, OR SHOULD MAKE IN THE FUTURE, TO ANY HONDA MOTORCYCLE, SHALL BE DEEMED BY OUR COMPANY TO HAVE BEEN PERFORMED AT YOUR SOLE RISK AND RESPONSIBILITY, AND WITHOUT OUR COMPANY'S OR THE MANUFACTURER'S APPROVAL OR CONSENT, IMPLIED OR EXPRESSED. WE FURTHER DISCLAIM ANY AND ALL LIABILITY, OBLIGATION, OR RESPONSIBILITY FOR ANY DEFECTS OF MODIFIED PARTS OR OF THE MODIFIED MOTORCYCLE, AND FOR ANY CLAIMS, DEMANDS, OR CAUSES OF ACTION FOR DAMAGE TO PROPERTY OR FOR PERSONAL INJURIES RESULTING FROM THE MODIFICATION OF SAID HONDA MOTORCYCLE.

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