

# Set-up Instructions

# 1983 Model ATC185S



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

AUG. 17 1982

**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 ATC. When a customer takes delivery of his brand new ATC, 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 unit. 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.

**COPY**



*NOTE: Right and left are determined from the rider's view.*

Date of Issue: 7/82

© American Honda Motor Co., Inc. 1982 - All Rights Reserved

1 of 21

# SET-UP INSTRUCTION REVISED PAGES

**Pages Affected**

1 through 21

**Orig. Issue Date**

7/82

**Rev. Date**

Original

**Remove and destroy superseded pages.**

Pay special attention to warnings, cautions, and notes.

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

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

*NOTE: gives helpful information.*

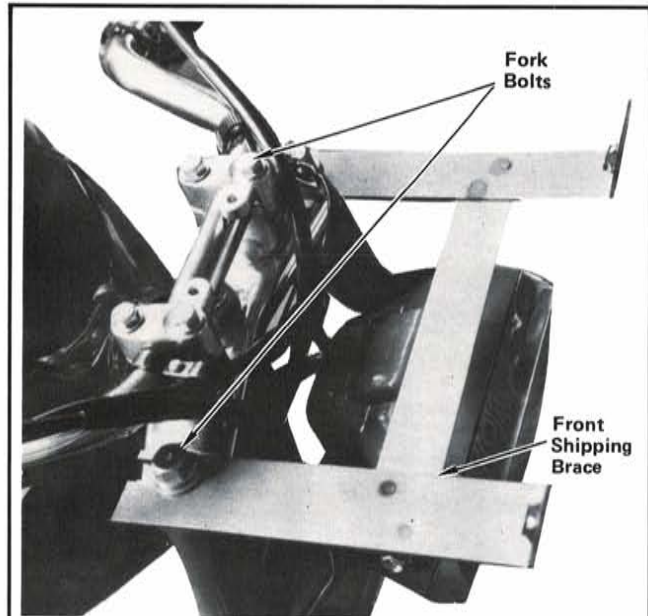
**STEP 1**—Cut straps and remove carton cover by lifting it up. Remove crate wood top.

**STEP 2**—Remove four bolts attaching crate front end frame. Discard bolts.

**STEP 3**—Remove two bolts attaching crate rear end frame to crate base. Discard bolts.

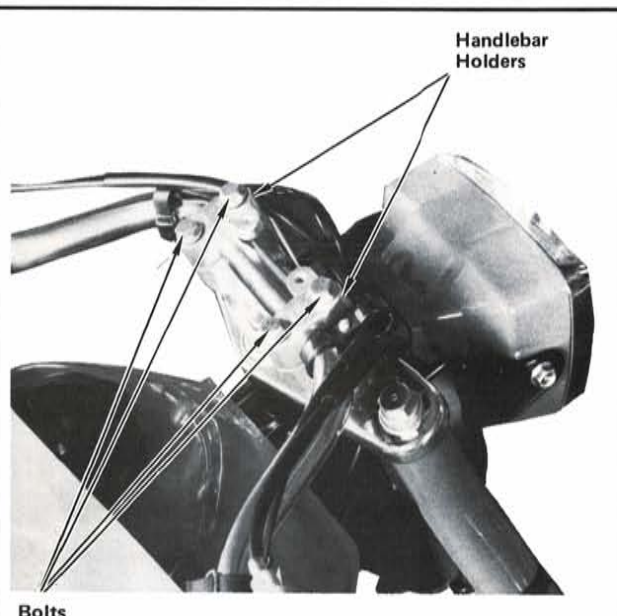
**STEP 4**—Remove bolts attaching center braces to crate base on each side. Discard bolts. Carefully lift off crate frame using two people.

**CAUTION:** Use extreme care not to damage ATC with crate frame.



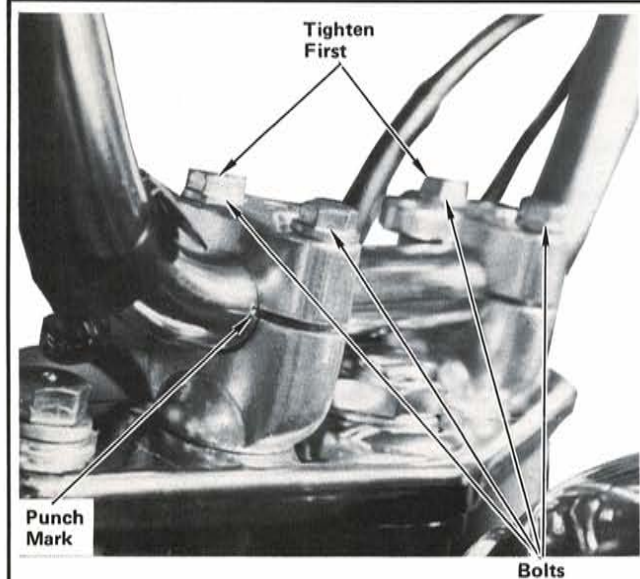
**STEP 5**—Loosen fork bolts and remove front shipping brace. Retighten fork bolts to specified torque.

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



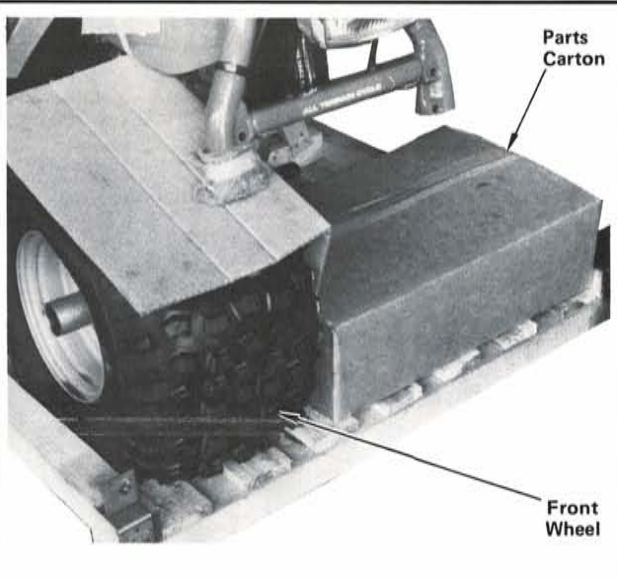
**STEP 6**—Loosen four bolts attaching upper handlebar holders.

Bolts



**STEP 7**—Raise handlebar grips until punch mark on handlebar is aligned with top of lower holder and serrations are aligned with lower holders. Tighten forward bolts to specified torque first, then tighten rear bolts to same torque.

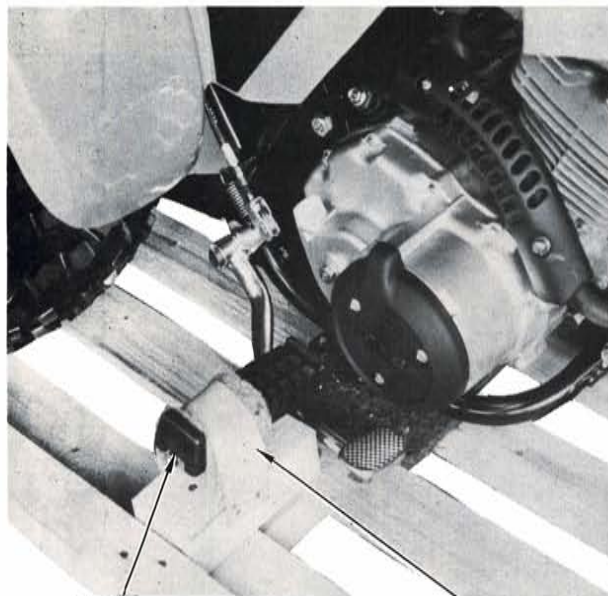
**Torque specification:**  
2.4 kg-m (18 lb-ft)



**STEP 8**—Remove front wheel and parts carton from crate base.

Front Wheel

Parts Carton

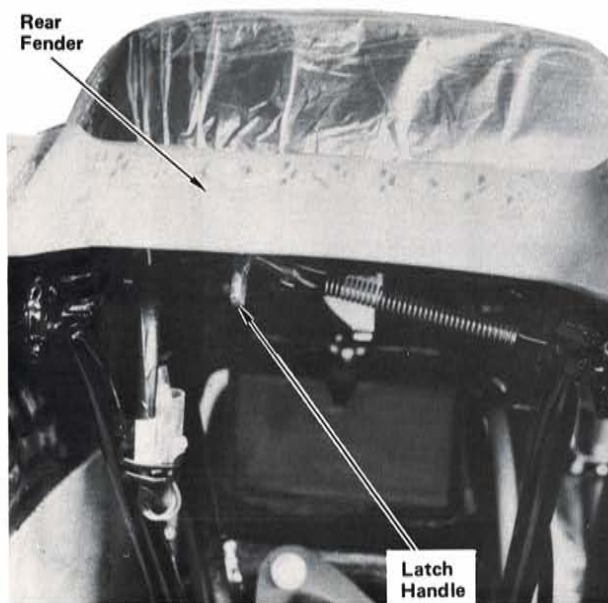


Foot Peg (Typical) Shipping Retainer (Typical)

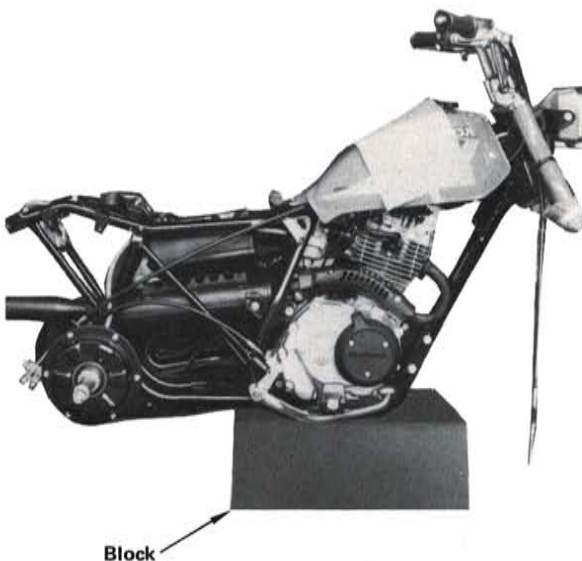
**STEP 9**—Remove nails and remove lower shipping retainers holding foot pegs to crate base.



**STEP 10**—Remove rear wheels from crate base.

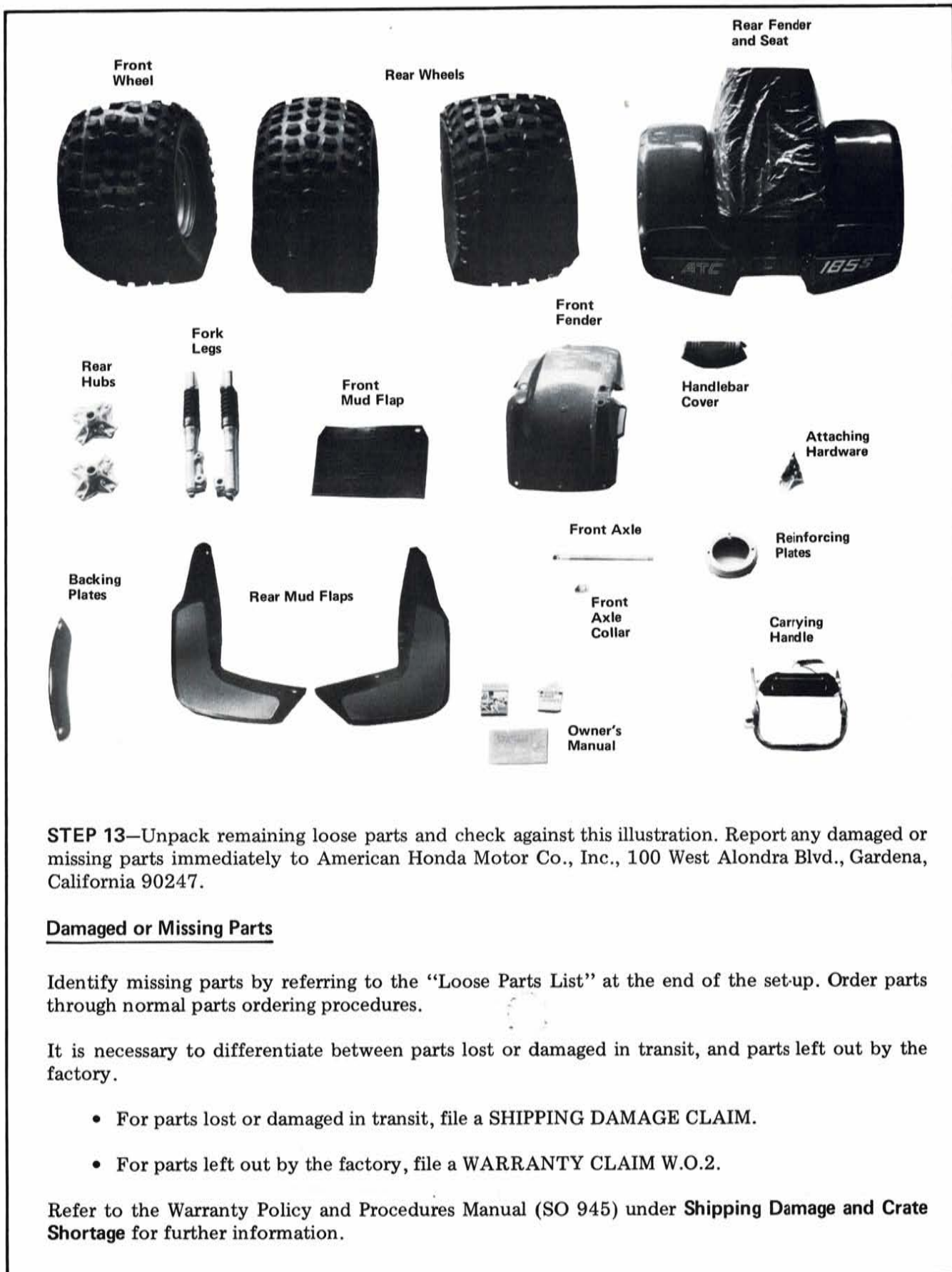


**STEP 11**—Remove rear fender by moving latch handle sideways.



**STEP 12**—Carefully remove ATC from crate base and support on padded block centered under engine as shown.

**CAUTION:** The ATC can easily be tipped over until it is resting on front and rear wheels.



**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.

Rubber Grommets (4)

Flanged Collars (4)

Front Fender

Mud Flap

6 x 7 mm Special Screws (3)

Special Nuts (3)

**STEP 14**—Check front fender mud flap and attaching hardware.

6 x 7 mm Special Screws and Special Nuts

Mud Flap

**STEP 15**—Position mud flap under front fender as shown and install using three 6 x 7 mm special screws inserted down through fender, and special nuts under fender as shown. Tighten screws securely.

*NOTE: Note position of special nuts.*

10 x 35 mm Flange Bolts

Fork Legs

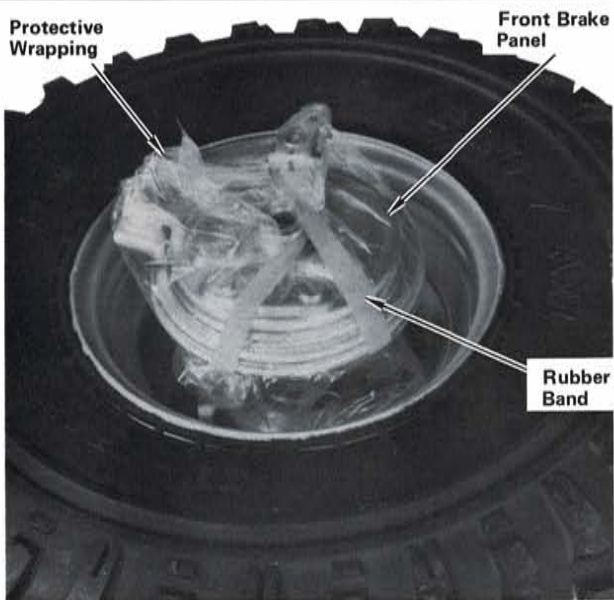
**STEP 16**—Insert left and right fork legs up into lower fork bridge. (Fork leg with axle holder goes on left side.) Push fork legs up tight against stop in lower fork bridge and install using four 10 x 35 mm flange bolts as shown. Tighten bolts to specified torque.

**Torque specification:**  
4.5 kg-m (32 lb-ft)

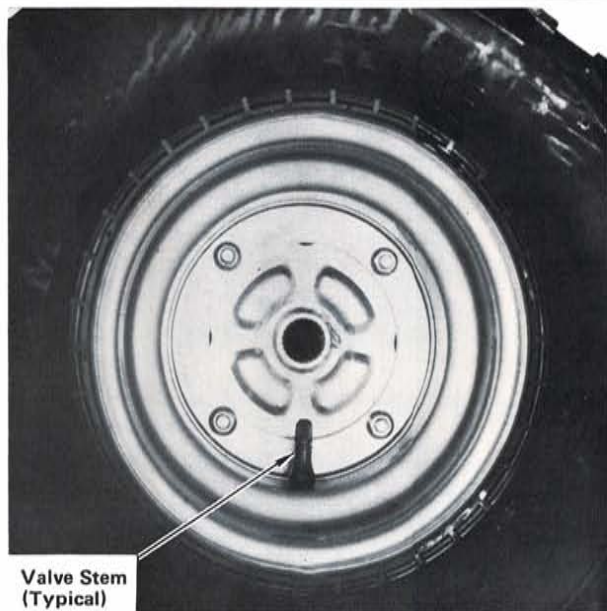
6 x 22mm Bolt/Washer and Flanged Collar ( 4 Plcs)

**STEP 17**—Insert four rubber grommets into holes in fender. Position front fender between fork legs with mud flap towards rear and install using four 6 x 22 mm bolts/washers and flanged collars. Tighten bolts to specified torque.

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



**STEP 18**—Remove rubber band and remove protective wrapping from front brake. Remove front brake and check that brake linings and brake drum are clean. Check that grease seal is full of grease. If necessary, wipe brake drum with a clean cloth. Reinstall brake panel.



**STEP 19**—Inflate and check tire pressure of all three tires.

Tire Pressure: 2.2 psi.

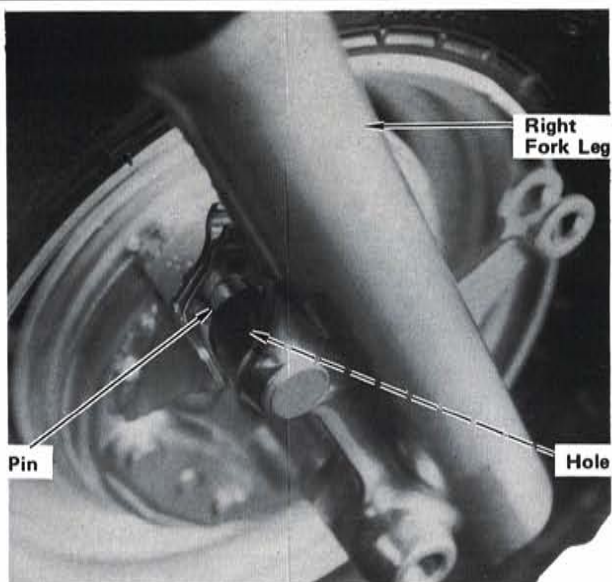


**STEP 20**—Insert large end of axle collar into grease seal on valve stem side of front wheel as shown.

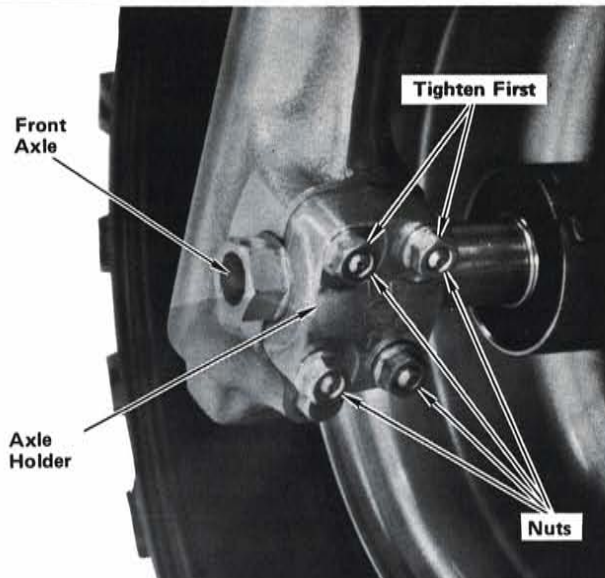


**STEP 21**—Rotate sliders of fork legs so axle holder and brake mounting bosses are towards the rear. Loosen axle holder nuts. Insert front axle through axle holder, collar, wheel hub, brake panel, and into right fork leg.





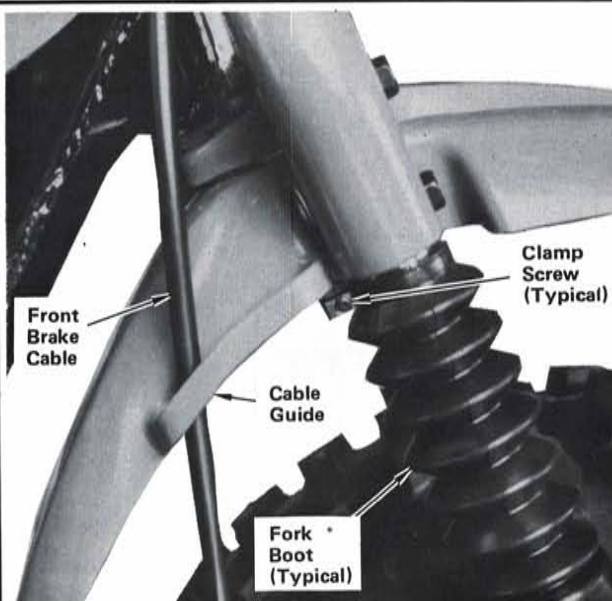
**STEP 22**—Check that pin on brake panel is inserted into hole in right fork leg.



**STEP 23**—Tighten front axle to specified torque. Tighten upper axle holder nuts to specified torque first, then tighten lower nuts to same torque.

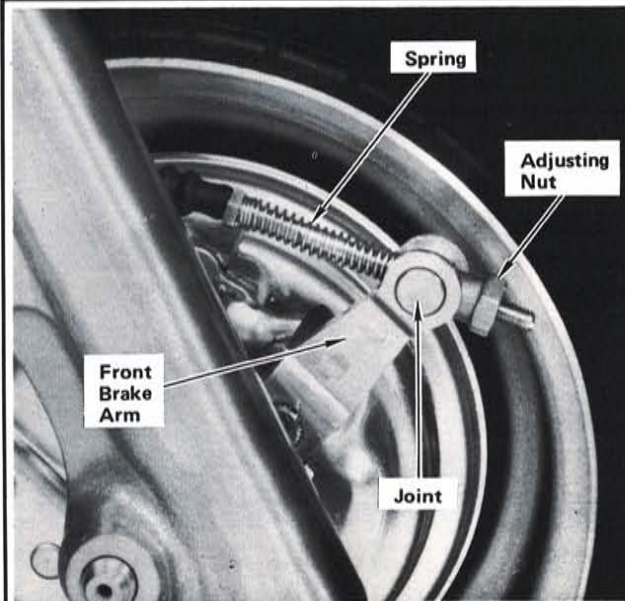
**Torque specifications:**

Front Axle: 9.0 kg-m (70 lb-ft)  
Axle holder nuts: 1.2 kg-m (9 lb-ft)

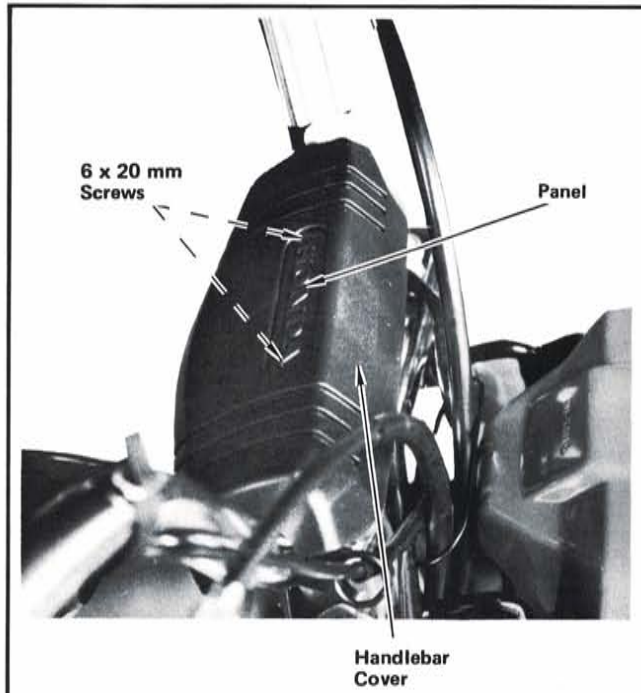


**STEP 24**—Route front brake cable down through cable guide on front fender. Install upper ends of fork boots as shown and tighten clamp screws.

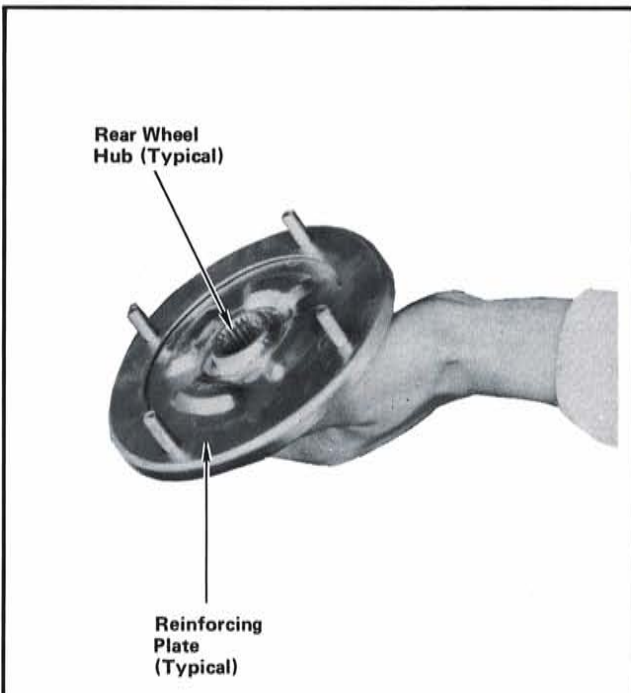
**CAUTION:** Do not twist fork boots while tightening clamp screws.



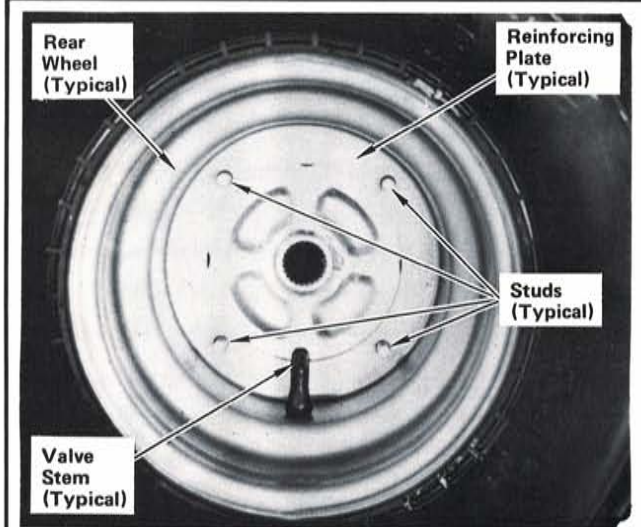
**STEP 25**—Route front brake cable through cable guide on brake panel. Slip brake return spring over end of brake cable and connect cable to front brake arm using a brake arm joint and cable adjusting nut. Adjust front brake as described in Step 43.



**STEP 26**—Remove panel from handlebar cover and install cover as shown using two 6 x 20 mm screws. Tighten screws securely and reinstall panel as shown.

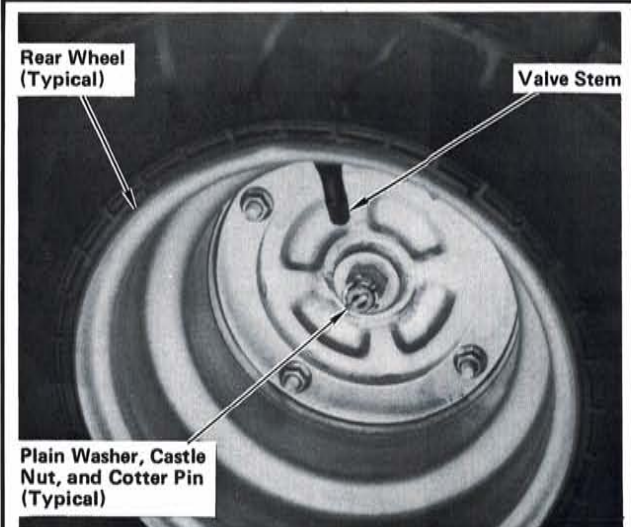


**STEP 27**—Install a reinforcing plate over studs of each rear wheel hub as shown. (Flange lip over hub.)



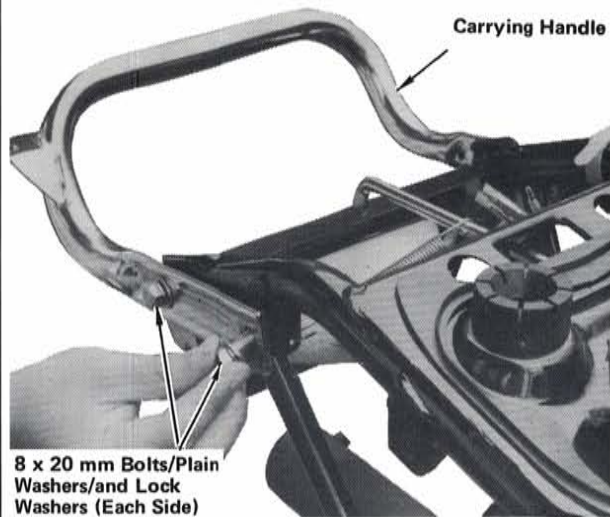
**STEP 28**—Insert studs of rear hubs through rear wheels from the side opposite the valve stems. Install each hub using a reinforcing plate (flange lip up) and four 8 mm flange nuts on side of wheel having valve stem. Tighten nuts to specified torque.

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



**STEP 29**—Grease rear axle splines and install rear wheels, with valve stems to the outside, using a plain washer and castle nut for each. Tighten both castle nuts to specified torque and install a cotter pin in each. Spread ends of cotter pins as shown.

**Torque specification:**  
7.0 kg-m (51 lb-ft)

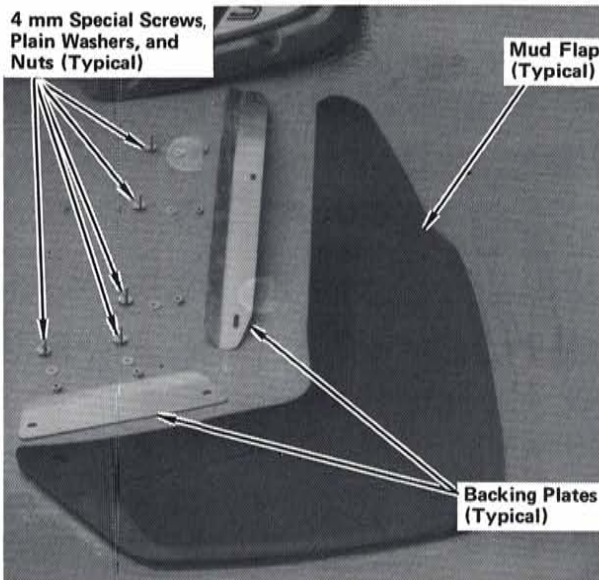


**STEP 30**—Position ends of carrying handle over holes in frame as shown and install using two 8 x 20 mm bolts/plain washers/lock washers for each side. Tighten bolts to specified torque.

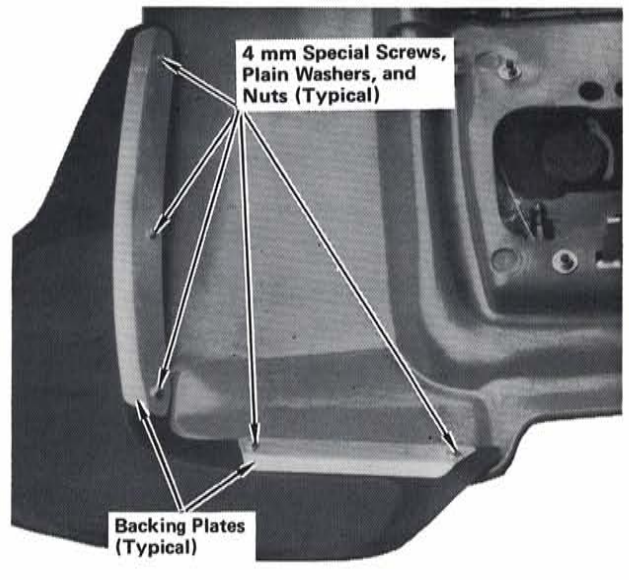
**Torque specification:**  
2.2 kg-m (16 lb-ft)



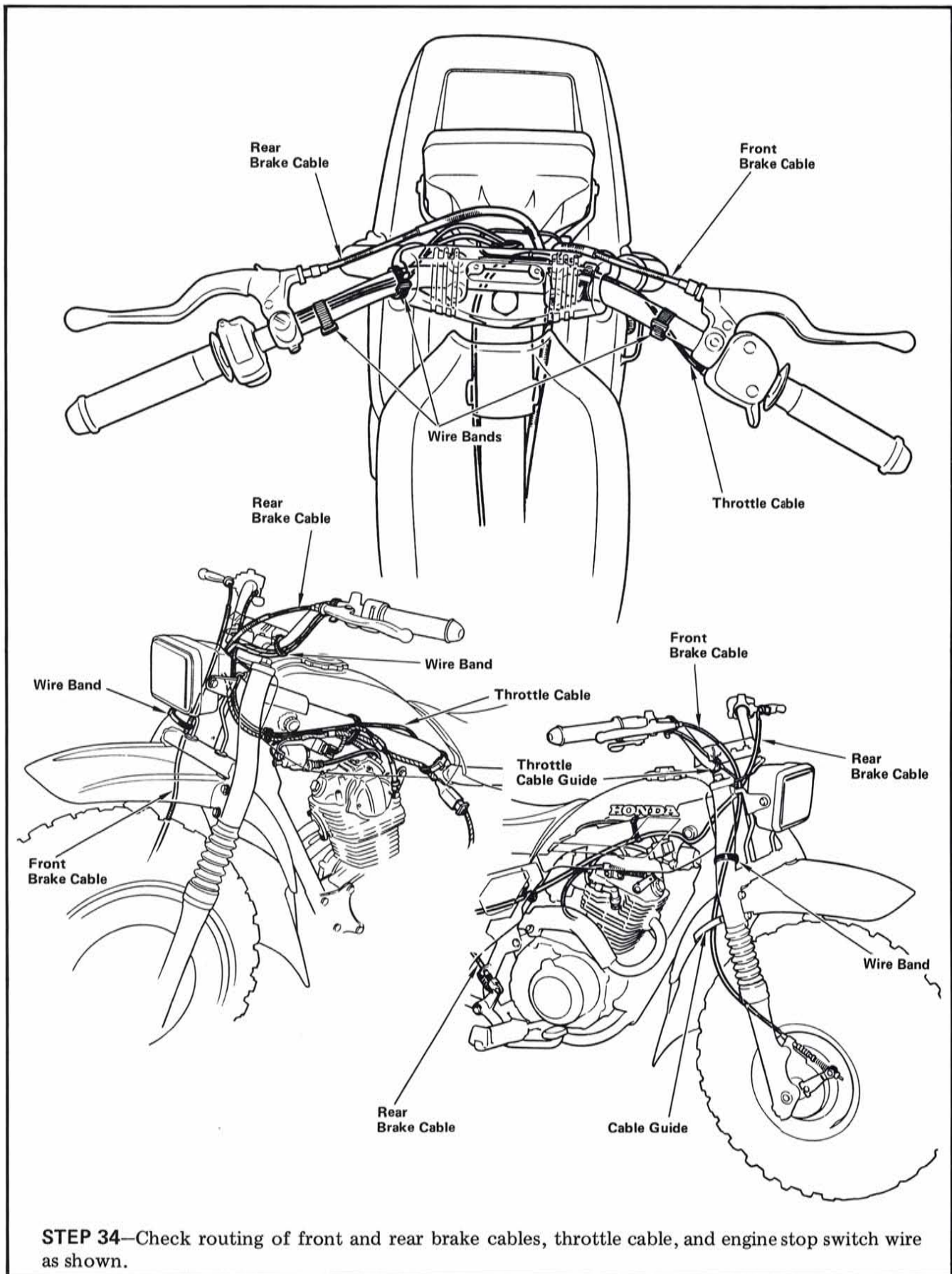
**STEP 31**—Connect taillight wires to wire harness color-to-color. Secure wires and connectors to frame using the wire clamp as shown.

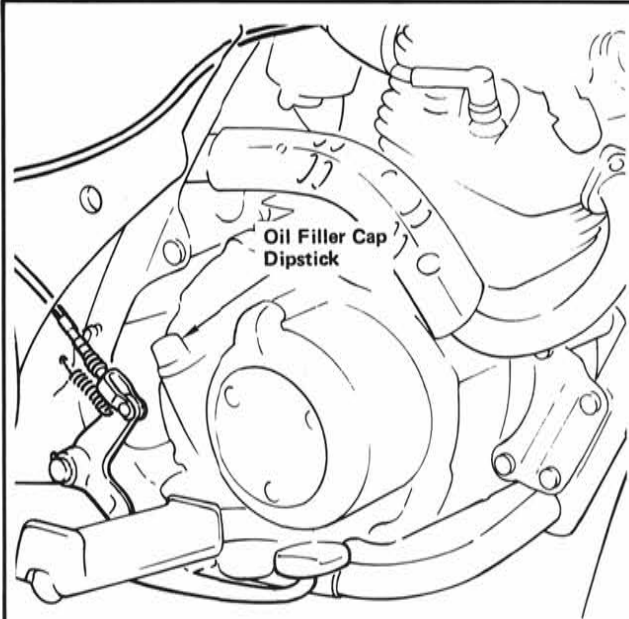


**STEP 32**—Check rear fenders, mud flaps, and attaching hardware.

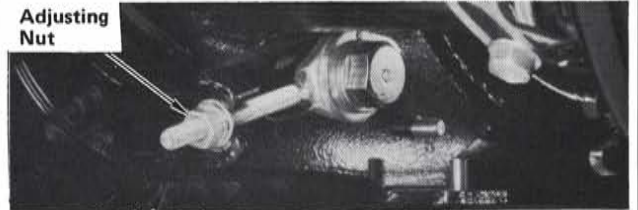
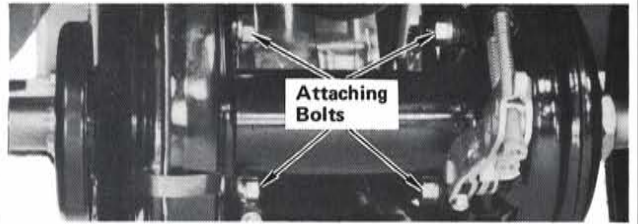
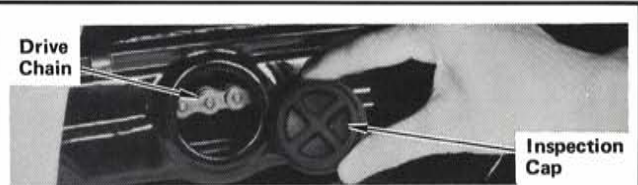


**STEP 33**—Position rear mud flap under rear fender and install using five 4 mm special screws inserted down through fender, and two backing plates and five nuts and plain washers under fender as shown. Repeat for other fender. Tighten all screws securely.



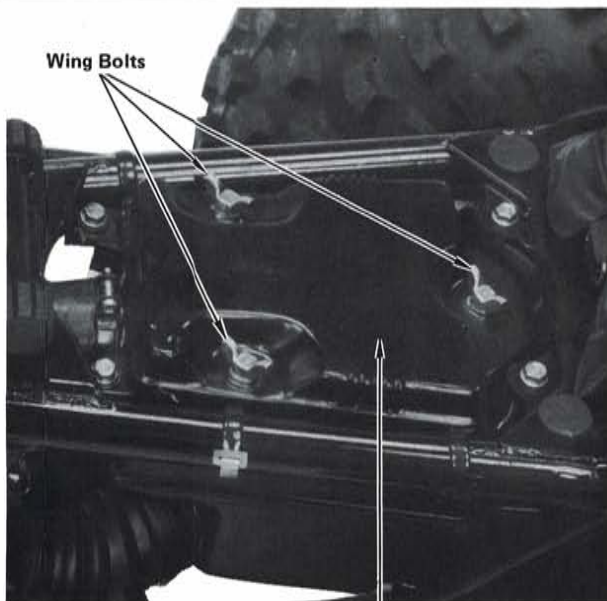


**STEP 35**—Fill crankcase with recommended oil as described in owner's manual.

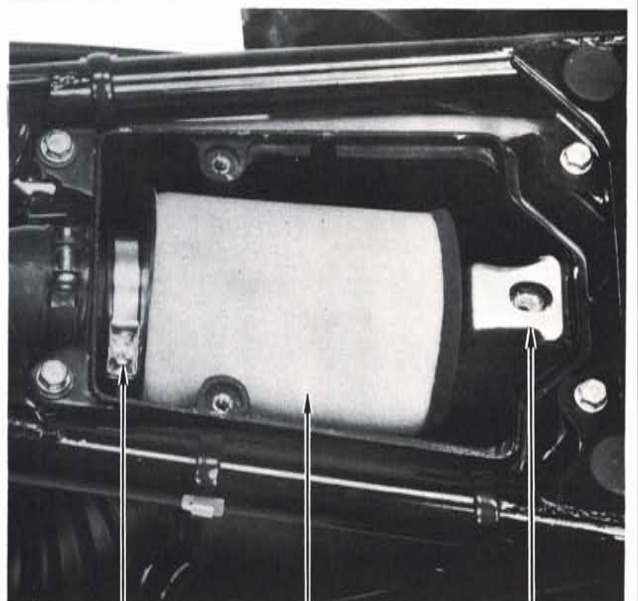


**STEP 36**—Check drive chain slack and lubrication. If necessary, adjust and lubricate drive chain as described in owner's manual or shop manual.

Slack: 15–25 mm (5/8–1 in.)



Air Cleaner Cover

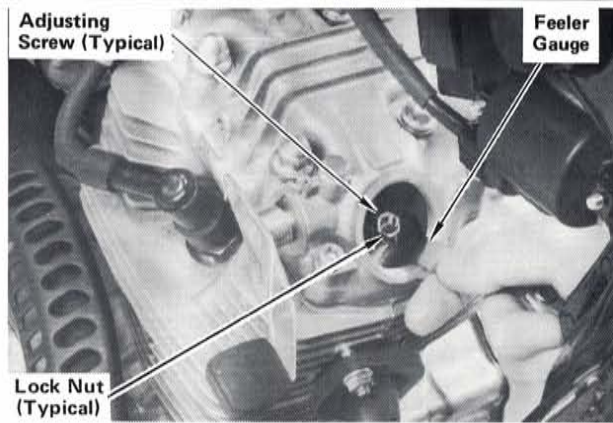
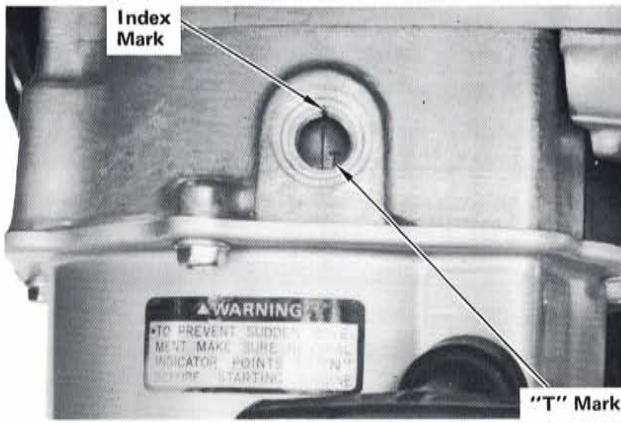


Band Screw

Air Cleaner Element

Retainer

**STEP 37**—Remove three wing bolts attaching air cleaner cover. Loosen air cleaner band screw. Remove air cleaner element assembly from air cleaner case. Remove retainer from air cleaner core and remove air cleaner element. Check condition of element. If necessary, clean element as described in owner's manual or shop manual. Reinstall element, retainer, and assembly into air cleaner case. Tighten air cleaner band screw. Reinstall air cleaner cover and tighten wing bolts securely.

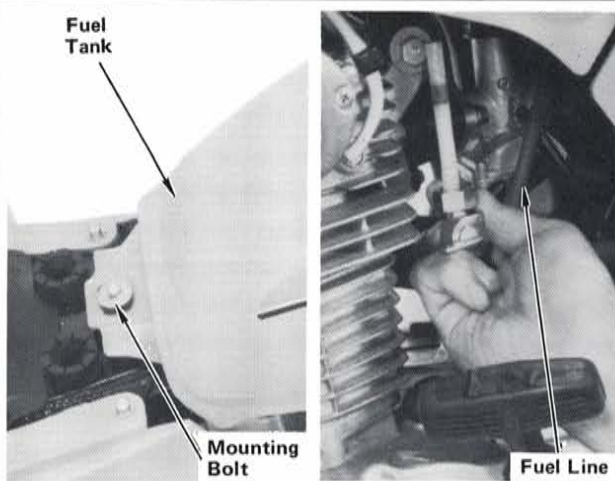


**STEP 38**—Check valve clearance and adjust if necessary as follows:

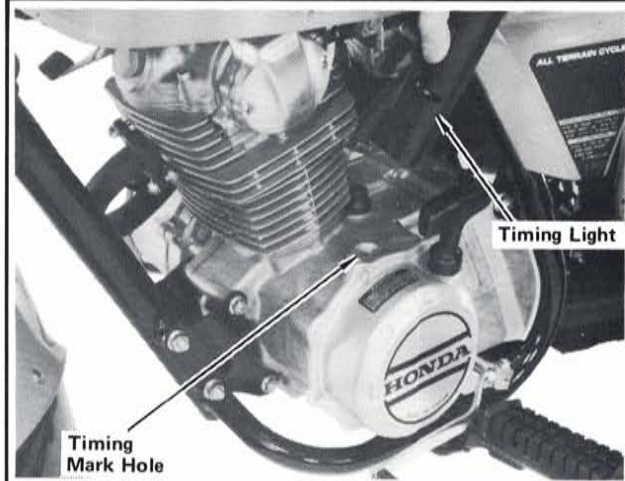
*NOTE: Valve clearance adjustment must be done while engine is cold (below 35° C; 95° F).*

1. Remove timing mark cap and valve adjuster hole caps.
2. Rotate crankshaft using recoil starter and align "T" mark on rotor with index mark on crankcase. Piston must be at T.D.C. (Top Dead Center) of compression stroke.
3. Insert feeler gauge between adjusting screw and valve stem of intake and exhaust valves.
4. If adjustment is necessary, loosen lock nut and turn adjusting screw as required.
5. After adjustment, hold adjusting screw and tighten lock nut.
6. Recheck valve clearance.
7. Reinstall valve adjuster hole caps.

**Intake and Exhaust: 0.05 mm (0.002 in.)**

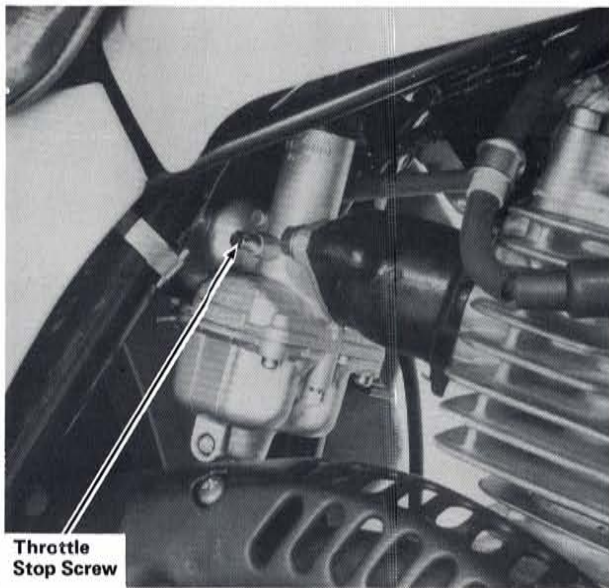


**STEP 39**—Drain fuel tank as described in shop manual. Remove fuel tank by removing mounting bolt at rear of tank and disconnecting fuel line. Inspect and flush fuel tank. Reinstall fuel tank, connect fuel line, fill tank, turn on fuel tank and check for leaks and flow through fuel filter. Tighten mounting bolt securely.



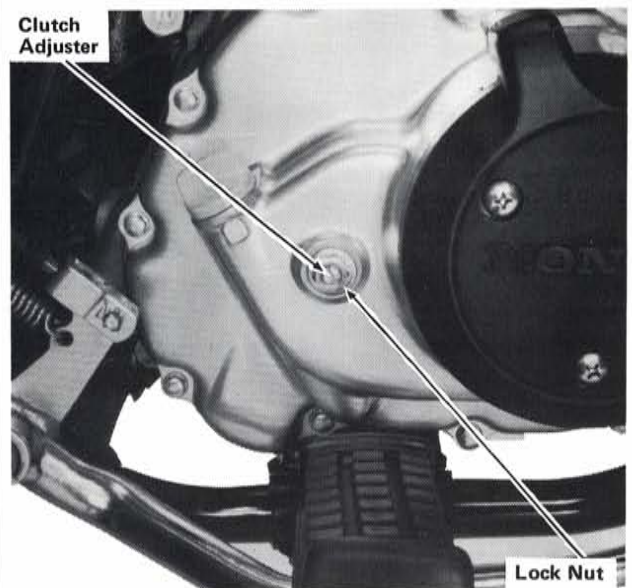
**STEP 40**—Connect a stroboscopic timing light and check transmission in neutral. Start engine and allow it to idle. Aim timing light at timing mark hole and check that "F" mark is aligned with index mark at idle. Reinstall timing hole cap. Remove timing light.

*NOTE: The C.D.I. (Capacitor Discharge Ignition) system is factory preset and cannot be adjusted. If timing is incorrect, check C.D.I. units as described in shop manual.*



Throttle Stop Screw

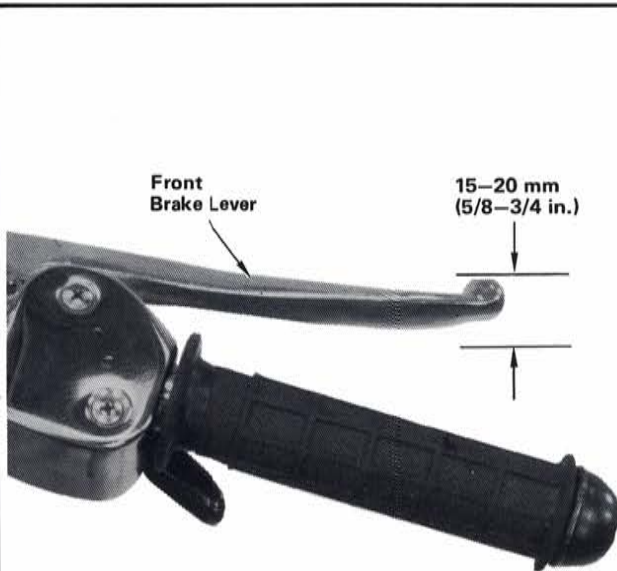
**STEP 41**—Connect a tachometer and check transmission in neutral. Start engine and allow it to warm up to operating temperature and check idle speed at  $1,400 \pm 100$  rpm. If necessary, adjust idle speed using throttle stop screw. Remove tachometer.



Clutch Adjuster

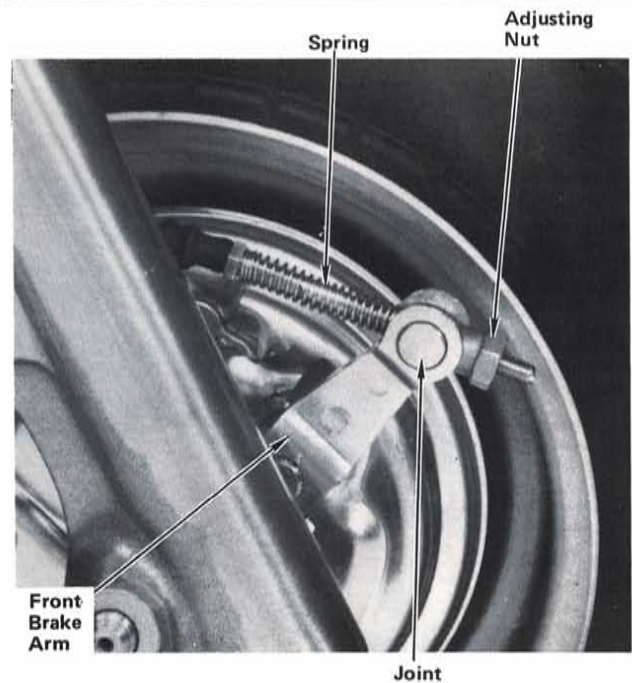
Lock Nut

**STEP 42**—Check clutch operation. If adjustment is necessary, use the following procedure. Loosen lock nut and turn clutch adjuster counter-clockwise until resistance is felt, then turn clutch adjuster 1/4 turn clockwise and tighten lock nut. Recheck clutch operation.



Front Brake Lever

15-20 mm  
(5/8-3/4 in.)



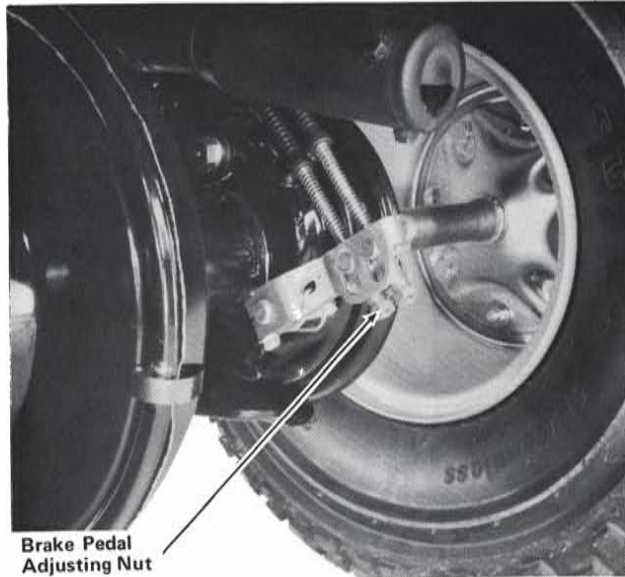
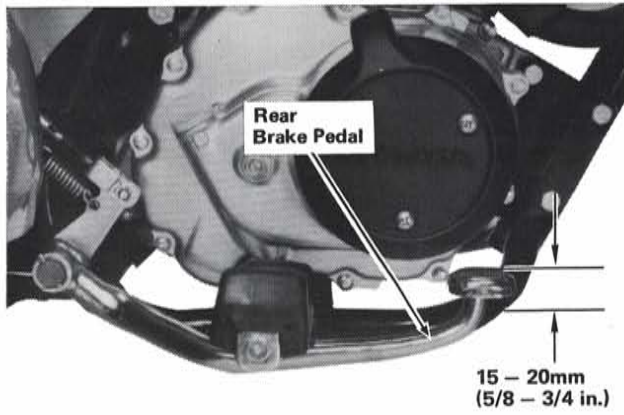
Adjusting Nut

Spring

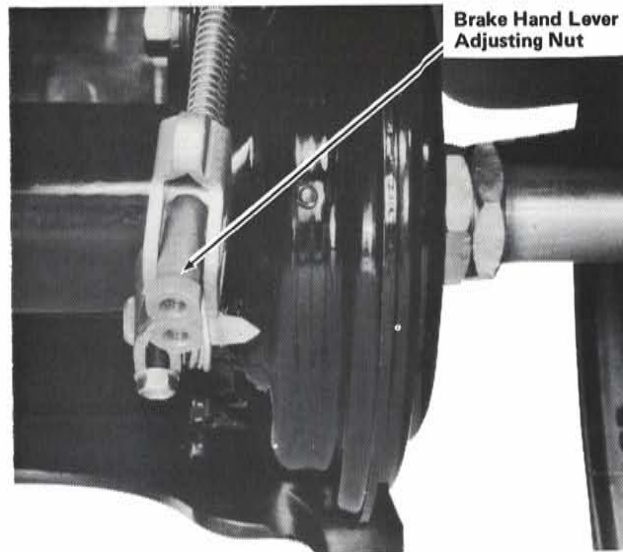
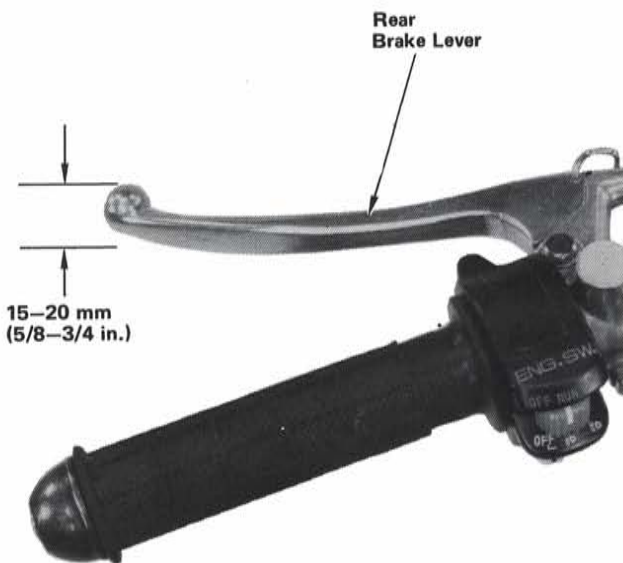
Front Brake Arm

Joint

**STEP 43**—Raise front wheel off ground using a support block under engine. Spin front wheel by hand and measure free play of front brake lever before brake starts to engage. Free play, measured at tip of brake lever, should be between 15 and 20 mm (5/8-3/4 in.). If adjustment is necessary, turn adjusting nut on front brake arm. Remove support block under engine.

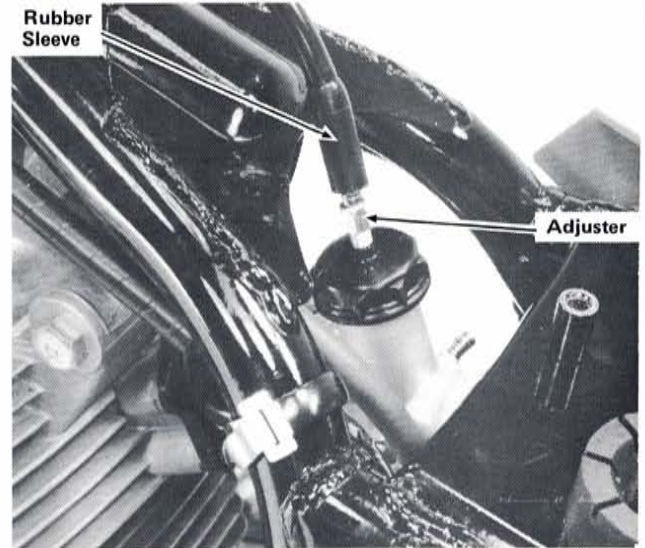
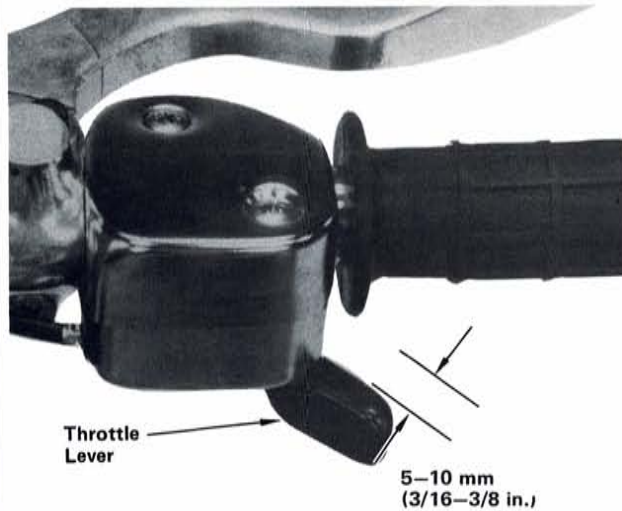


**STEP 44**—Raise rear wheels off ground using a support block under vehicle. Rotate rear wheels by hand measure free play before brake starts to engage. Free play, measured at tip of brake pedal, should be maintained between 15 and 20 mm (5/8—3/4 in.). To adjust free play, turn adjusting nut. Turning adjusting nut clockwise will decrease free play.

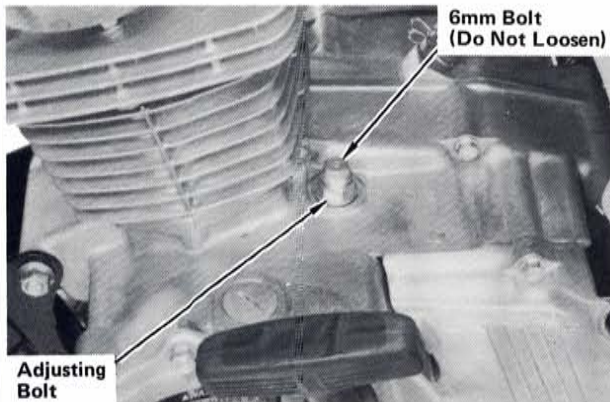


**STEP 45**—Spin rear wheels by hand and measure free play of rear brake lever before brake starts to engage. Free play, measured at tip of brake lever, should be between 15 and 20 mm (5/8—3/4 in.). If adjustment is necessary, turn adjusting nut. Turning adjusting nut clockwise will decrease free play. Remove block from under vehicle.





**STEP 46**—Check throttle cable for condition. Check that throttle lever free play is within 5–10 mm (3/16–3/8 in.) at tip of throttle lever. Check for smooth operation of throttle lever from fully closed to fully open in all steering positions and that throttle lever automatically returns from fully open to fully closed when released. If necessary to adjust free play, slide rubber sleeve back to expose adjuster on top of carburetor. Turn adjuster as required and slide rubber sleeve back over cable adjuster.

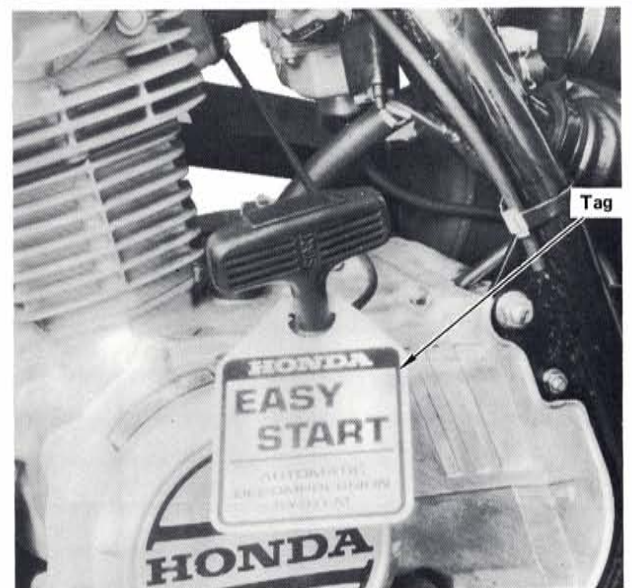


**STEP 47**—Adjust cam chain as follows:

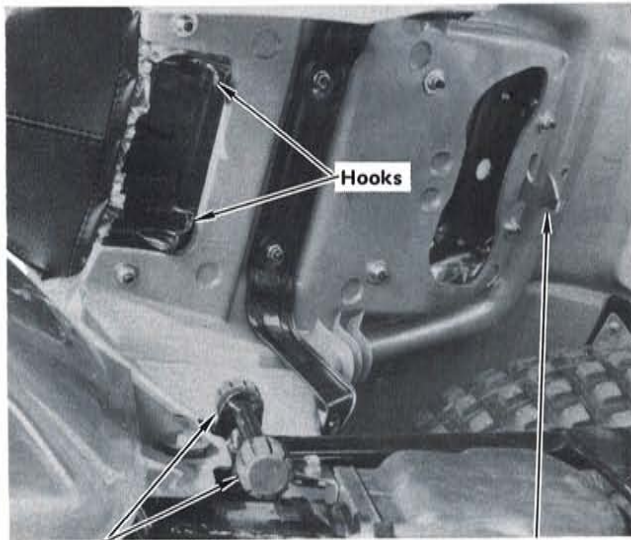
1. Start engine and allow it to idle.
2. Remove rubber cap from tensioner adjusting bolt.
3. Loosen cam chain tensioner adjusting bolt to allow cam chain to automatically adjust itself to correct tension.

*NOTE: Do not loosen the 6 mm bolt.*

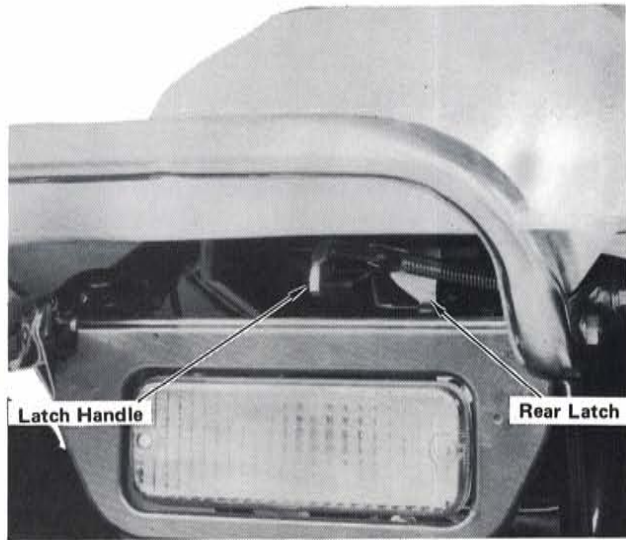
4. Retighten cam chain tensioner adjusting bolt.
5. Reinstall rubber cap over tensioner adjusting bolt.



**STEP 48**—Attach “Easy Start” tag to recoil starter handle as shown.



Rubber Mounts



Latch Handle

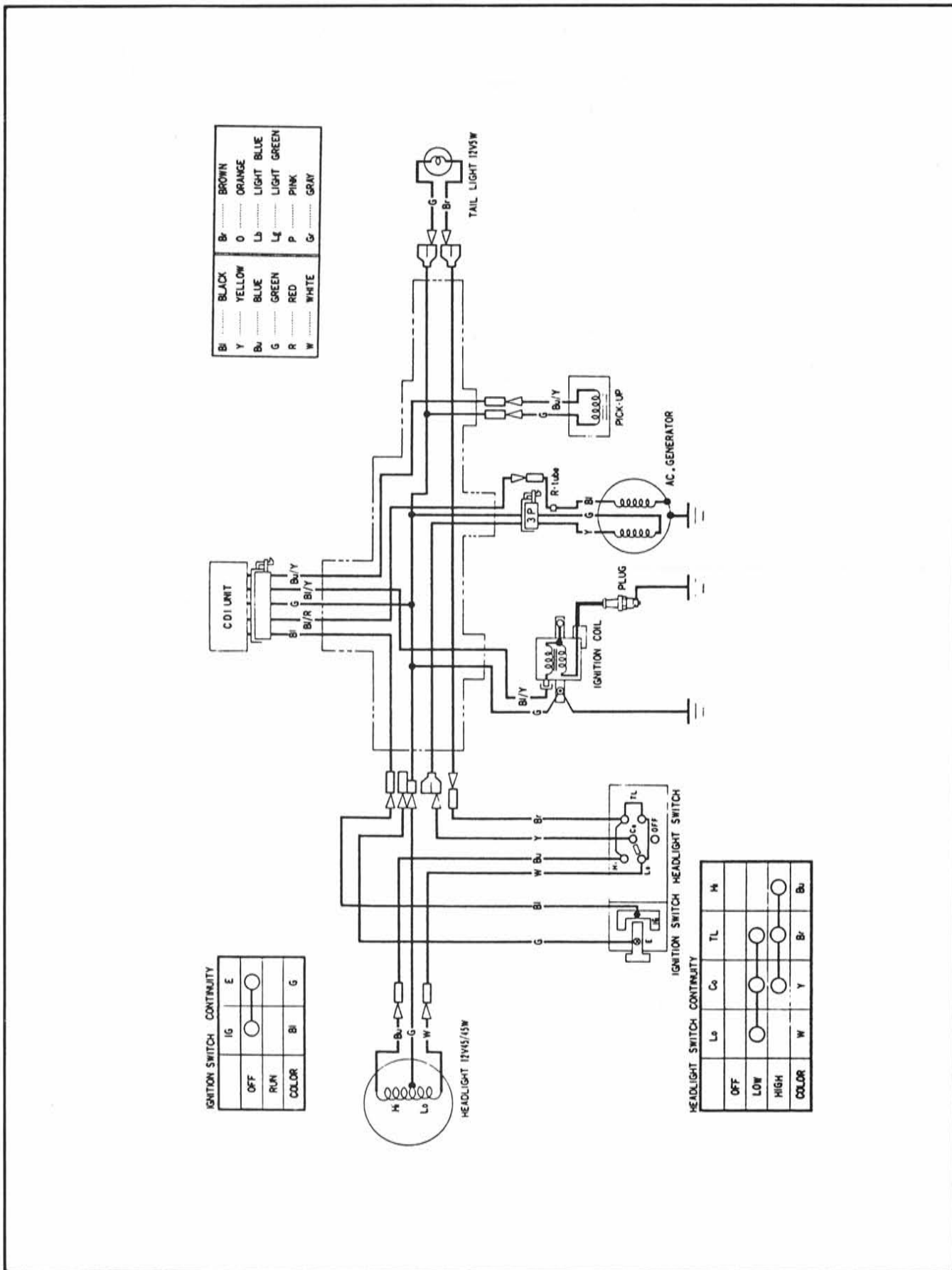
Rear Latch

Rear Latch

**STEP 49**—Slip hooks at front of seat over rubber mounts on frame and lock rear of seat down with latch. Be sure latch is fully engaged.

**TORQUE TABLE**

ITEM	SIZE	TORQUE
Front fork bolts	-----	6.0 kg-m (44 lb-ft)
Handlebar upper holder bolts	-----	2.4 kg-m (18 lb-ft)
Fork leg bolts	10 mm	4.5 kg-m (32 lb-ft)
Front fender bolts	6 mm	1.0 kg-m (8 lb-ft)
Front axle	-----	9.0 kg-m (70 lb-ft)
Axle holder nuts	-----	1.2 kg-m (9 lb-ft)
Rear wheel hub nuts	8 mm	2.2 kg-m (16 lb-ft)
Rear axle nuts	14 mm	7.0 kg-m (51 lb-ft)
Carrying handle	8 mm	2.2 kg-m (16 lb-ft)
Oil drain plug	-----	1.2 kg-m (9 lb-ft)
Valve adjuster caps	-----	1.2 kg-m (9 lb-ft)
Cam chain tensioner bolt	16 mm	1.8 kg-m (13 lb-ft)



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

### PRE-DELIVERY SERVICE CHECK LIST

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

## LOOSE PARTS

The following is a list of items contained in the parts package carton and loose parts in the crate:

PART NAME	QTY	H/C	PART NUMBER
Front fork assembly (right)	1	127431	51400-958-672ZA
Front fork assembly (left)	1	127600	51500-958-672ZA
10 x 35 mm flange bolt	4	129918	90118-958-000
6 x 7 mm special nut	3	095557	61304-958-003
Front fender	1	-----	61100-958-670
Front mud guard	1	096603	61111-943-000
Front fender rubber grommet	4	068067	61103-430-000
Fender mounting collar	4	076394	61104-444-000
6 x 7 mm special screw	3	081065	90102-673-003
6 x 22 mm flange bolt	4	-----	95700-06023-000
Handle cover	1	127474	53205-958-003
Handle cover panel	1	127476	53206-958-003
6 x 20 mm bolt/washer	2	073766	93493-06020-08
Front wheel assembly	1	-----	-----
Front wheel axle	1	127391	44301-958-671
Front axle collar	1	127395	44312-958 010
Rear wheel assembly	2	-----	-----
Hub reinforcing plate	4	107561	44714-958-670
Rear wheel hub	2	107554	42410-958-670
8 mm flange nut	8	067801	94050-08000-0S
14 mm castle nut	2	023402	94011-14000-0S
14 mm plain washer	2	107432	42322-950-000
3 x 25 mm cotter pin	2	005842	94201-30250
Rear fender	1	-----	80100-958-670
Rear mud guard	2	100089	80111-958-670
Rear fender plate	2	100380	80112-958-670
Rear fender side plate	2	100381	80113-958-670
4 x 12 mm screw	10	032208	90164-357-000
4 mm hex nut	10	056211	94001-04080-0S
4 mm plain washer	10	033146	94101-04800
Carrying handle	1	100383	81200-958-670
Brake rod spring A	1	027105	95014-73100
Brake arm joint B	1	040094	95015-32001
Brake rod adjusting nut B	1	025776	95015-42000
Owner's manual	1	129924	31958030



)

)

)

)

)

)

)

READ THIS READ THIS READ THIS

READ THIS READ THIS READ THIS

# HONDA

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.

READ THIS READ THIS READ THIS