Set-up Instructions



1985 Model ATC350X

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

SET-UP INSTRUCTION REVISED PAGES

Pages Affected

Orig. Issue Date

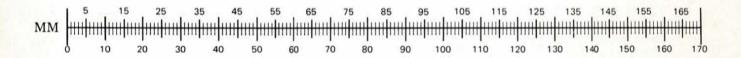
Rev. Date

1 through 26

2/85

Original

Remove and destroy superseded pages.



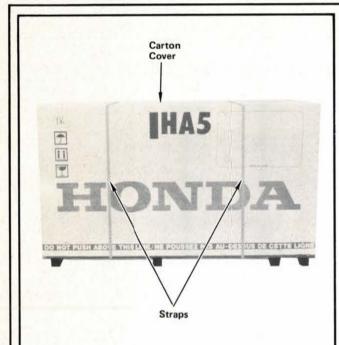
METRIC SCALE FOR DETERMINING BOLT LENGTHS/DIAMETERS

Pay special attention to warnings, cautions, and notes.

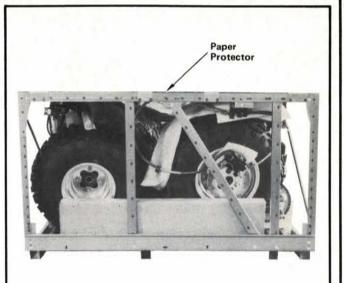
WARNING means hazards or unsafe practices which could cause severe personal injury or death.

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

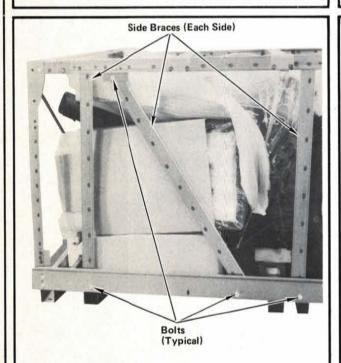
NOTE: gives helpful information.



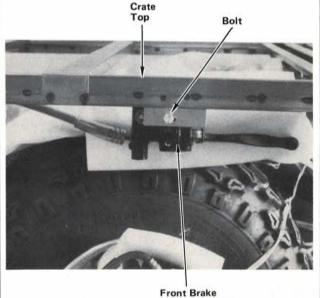
STEP 1—Cut straps and remove carton cover by lifting it up.



STEP 2-Remove crate paper protector.



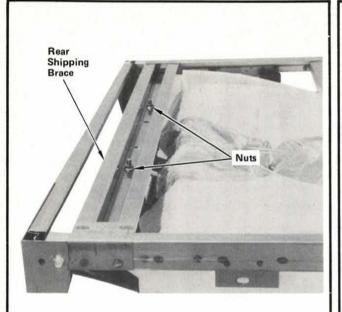
STEP 3—Remove and discard bolts attaching side braces to crate top and base on both sides. Discard braces.



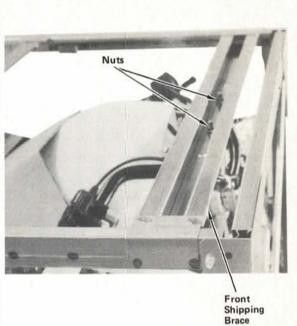
STEP 4—Remove and discard bolt attaching front brake master cylinder to crate top.

Master Cylinder

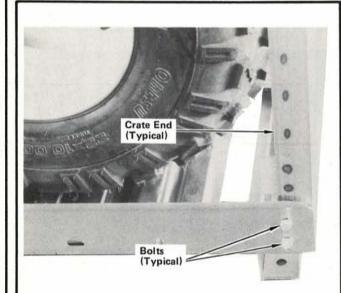
CAUTION: Do not allow master cylinder to hang by brake hose.



STEP 5—Remove and discard nuts attaching rear frame bracket to rear shipping brace.

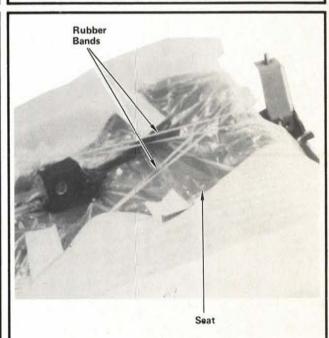


STEP 6—Remove and discard nuts attaching upper fork bridge to front shipping brace.

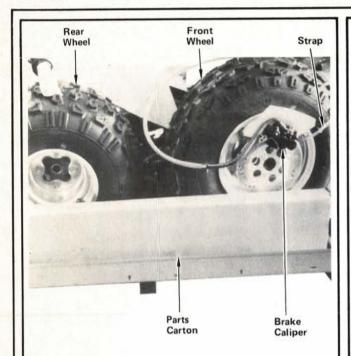


STEP 7—Remove and discard bolts attaching crate ends to crate base. Carefully lift off metal crate frame using two people. Discard side braces and crate frame.

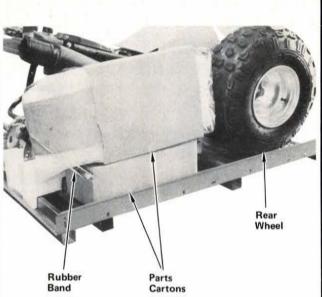
CAUTION: Use extreme care not to damage vehicle with crate frame.



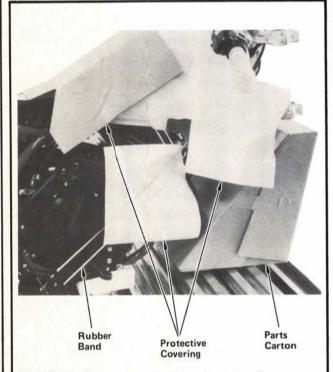
STEP 8—Remove seat by removing rubber bands.



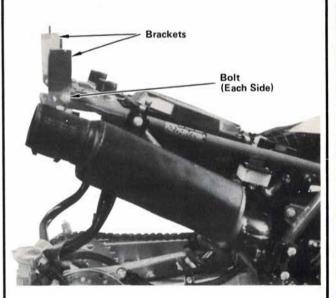
STEP 9—Remove parts carton from crate base. Remove and discard strap attaching front wheel to frame. Remove tie and protector attaching front brake caliper to front wheel. Remove wheels from crate base.



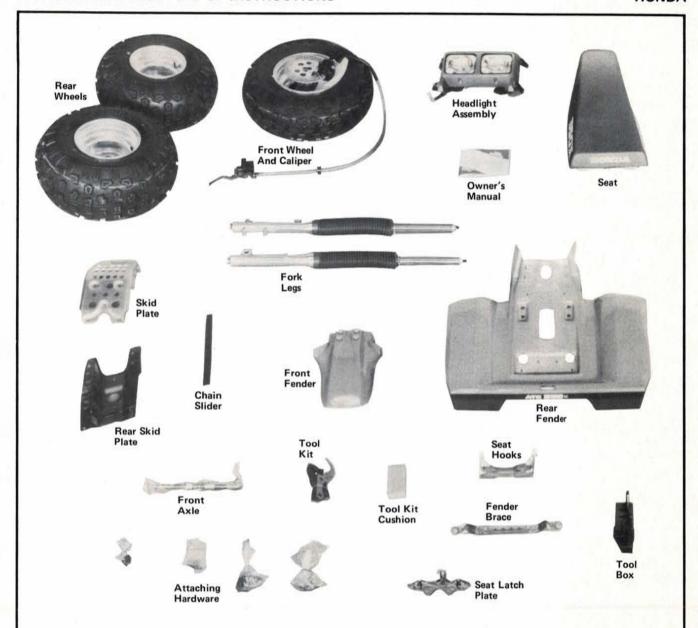
STEP 10—Remove other wheel and parts cartons from crate base.



STEP 11—Remove and discard protective covering by removing rubber band. Remove parts carton from crate base.



STEP 12—Remove and discard bolts attaching rear shipping brackets to frame. Discard brackets.



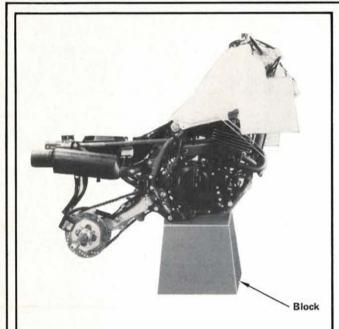
STEP 13—Unpack remaining loose parts and check against this illustration. Report any damaged or missing parts immediately to American Honda Motor Co., Inc., 100 West Alondra Blvd., Gardena, California 90247.

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.

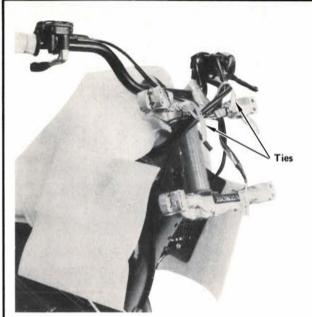
It is necessary to differentiate between parts lost or damaged in transit, and parts left out by the factory.

- For parts lost or damaged in transit, file a SHIPPING DAMAGE CLAIM.
- For parts left out by the factory, file a M/C WARRANTY CLAIM SO908.

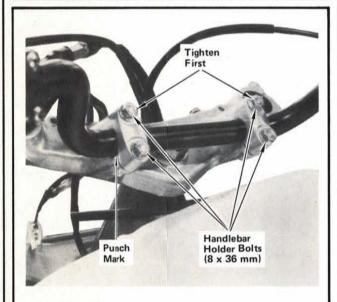


STEP 14—Carefully remove vehicle from crate base using a hoist or several people, and support on a padded block centered under engine as shown.

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

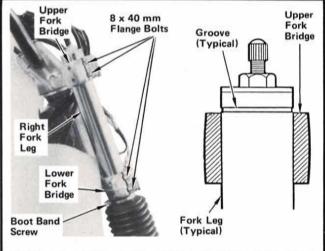


STEP 15—Release cables from upper fork bridge by removing ties.



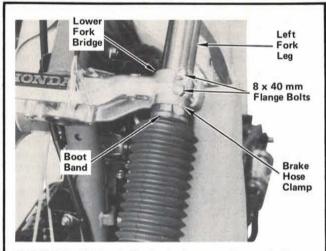
STEP 16—Loosen handlebar holder bolts and remove front shipping bracket. Lift handlebar grips up until punch mark on handlebar is aligned with top of lower holder. Tighten front bolts to specified torque first, then tighten rear bolts to same torque.

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



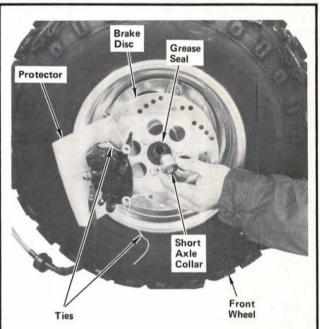
STEP 17—Slide right fork leg (leg with axle holder) up through lower and upper fork bridges. Align groove near upper end of fork tube with top of upper fork bridge. Position fork boot so upper boot band screw faces inward and axle holder faces forward. Insert four 8 x 40 mm flange bolts through holes in upper and lower fork bridges from front to rear. Tighten bolts to specified torque.

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

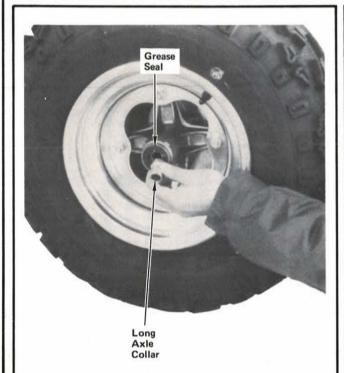


STEP 18—Slide left fork leg up through lower and upper fork bridges. Align groove near upper end of fork tube with top of upper fork bridge. Position fork boot so upper band screw faces inward, and axle boss faces forward. Insert two 8 x 40 mm flange bolts through brake hose clamp and into lower fork bridge from front to rear. Tighten bolts to specified torque.

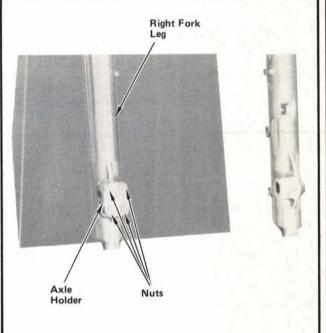
Torque specification: 2.1 kg-m (16 lb-ft)



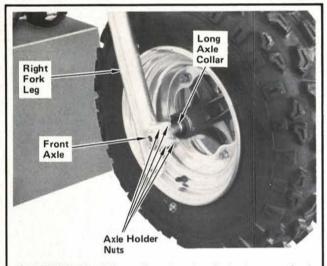
STEP 19—Insert left axle collar (short) into grease seal on brake disc side of front wheel. Remove ties attaching front brake caliper to front brake disc. Remove and discard protector between brake pads and disc.



STEP 20—Insert right axle collar (long) into grease seal of front wheel on side opposite brake disc.



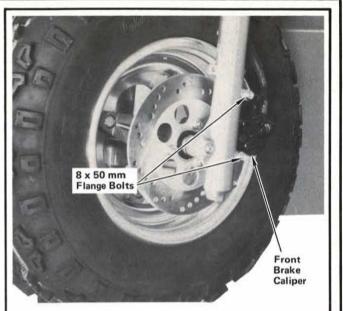
STEP 21—Loosen flange nuts attaching axle holder to right fork leg.



STEP 22-Position front wheel between fork legs with brake disc on left. Insert front axle from right side, through axle holder, long axle collar, wheel hub, short axle collar, and screw axle into left fork leg. Tighten axle to specified torque, then tighten axle holder nuts to specified torque.

Torque specifications:

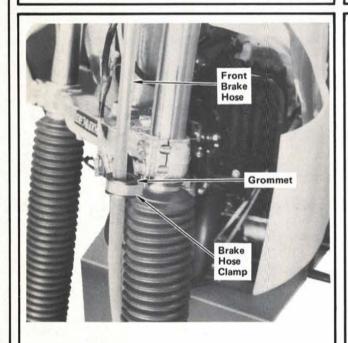
6.0 kg-m (44 lb-ft) Front axle: Axle holder nuts: 1.2 kg-m (9 lb-ft)



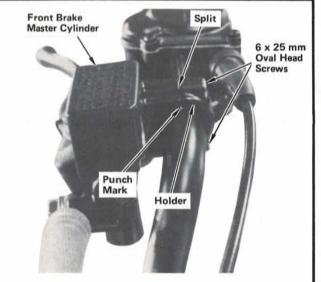
STEP 23-Carefully slip caliper over front brake disc. Align holes of caliper with holes in left fork leg. Install caliper using two 8 x 50 mm flange bolts. Tighten bolts to specified torque.

Torque specification:

2.5 kg-m (18 lb-ft)



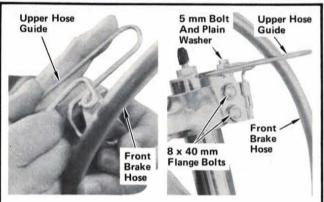
STEP 24-Press front brake hose plastic grommet into brake hose clamp on lower fork bridge.



STEP 25-Assemble front brake master cylinder and holder, with "UP" arrow on holder pointing up. Loosely install two black 6 x 25 mm oval head screws. Position master cylinder so split aligns with punch mark on top of handlebar. Tighten upper holder screw to specified torque first, then tighten lower screw to same torque.

Torque specification:

0.9 kg-m (7 lb-ft)



STEP 26—Slip upper brake hose guide over front brake hose. Position guide on upper fork bridge as shown and install using two 8 x 40 mm flange bolts inserted from front to rear through guide and into upper fork bridge. Tighten bolts to specified torque.

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

Secure end of guide using a 5 x 12 mm hex bolt and plain washer down through guide and into bracket. Tighten bolt to specified torque.

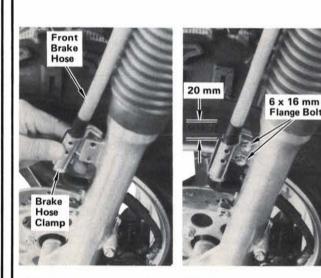
Torque specification: 0.5 kg-m (4 lb-ft)





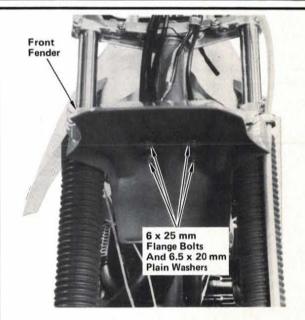
STEP 27—Position lower brake hose guide over brake hose inside of left fork leg. Hook slotted end of guide over tang on rear of fork leg and install using a 6×20 mm flange bolt through boss on front of fork leg. Tighten bolt to specified torque.

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



STEP 28—Insert brake hose into lower brake hose guide, then place front brake hose in brake hose clamp. Position upper end of brake hose protective tube 20 mm above brake hose clamp. Install clamp as shown using two 6 x 16 mm flange bolts. Tighten bolts to specified torque.

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



STEP 29—Position front fender between fork legs and install using four 6 x 25 mm flange bolts and special 6.5 x 20 mm plain washers. Tighten bolts to specified torque.

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



Tire Valve (Typical)

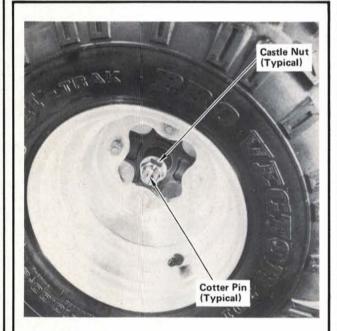
Rear Wheel (Each Side)

STEP 30—Grease rear axle splines and slip rear wheels onto axle with tire valves towards the outside as shown.



Castle Nut (Typical)

STEP 31—Install rear wheels using an axle collar and castle nut for each.

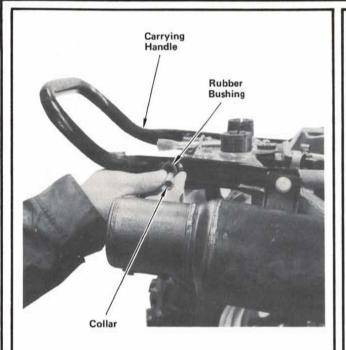


STEP 32—Tighten both castle nuts to specified torque equally, and install a cotter pin in each. Spread ends of cotter pins as shown.

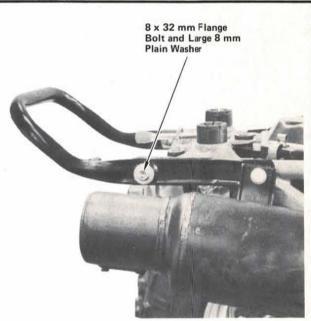
Torque specification: 14.5 kg-m (105 lb-ft)



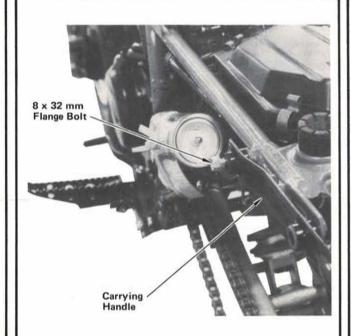
STEP 33—Remove tie holding carrying handle.



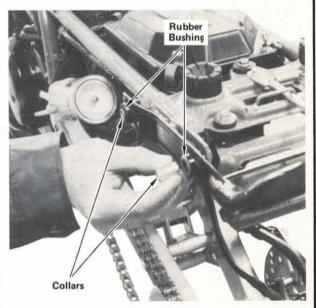
STEP 34—Raise carrying handle into position shown and align hole in right side with hole in frame. Press rubber bushing into hole in carrying handle. Press collar into hole in rubber bushing.



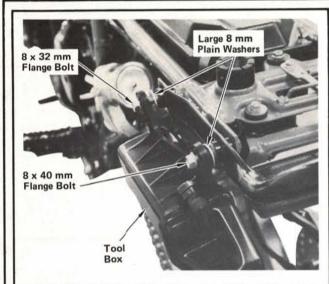
STEP 35—Loosely attach right side of carrying handle using an 8 x 32 mm flange bolt with large 8 mm plain washer through collar into frame.



STEP 36—Remove and retain 8×32 mm flange bolt attaching left end of carrying handle.

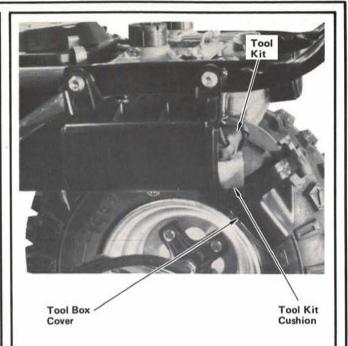


STEP 37—Press a collar into hole of each rubber bushing in carrying handle on left side.

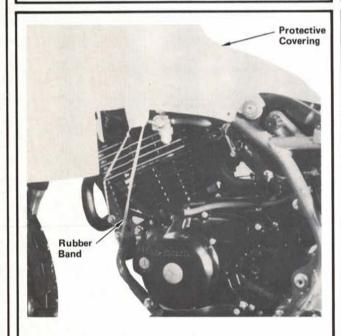


STEP 38—Install tool box on left side, positioned as shown, using an 8 mm large plain washer between tool box tabs and carrying handle. Insert an 8 x 32 mm flange bolt (removed in Step 36) through forward tab and an 8 x 40 mm flange bolt through rear tab. Tighten four carrying handle bolts to specified torque.

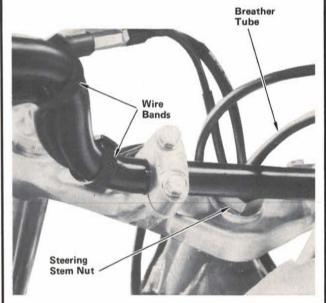
Torque specification: 2.7 kg-m (19 lb-ft)



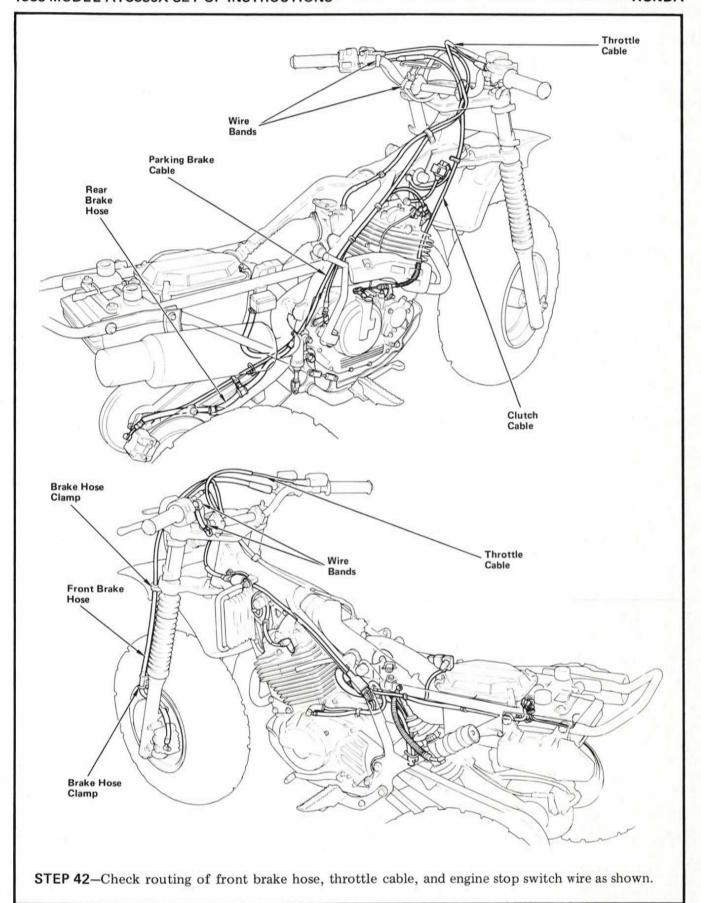
STEP 39—Open tool box cover and place tool kit and tool kit cushion in tool box. Close and lock tool box cover.

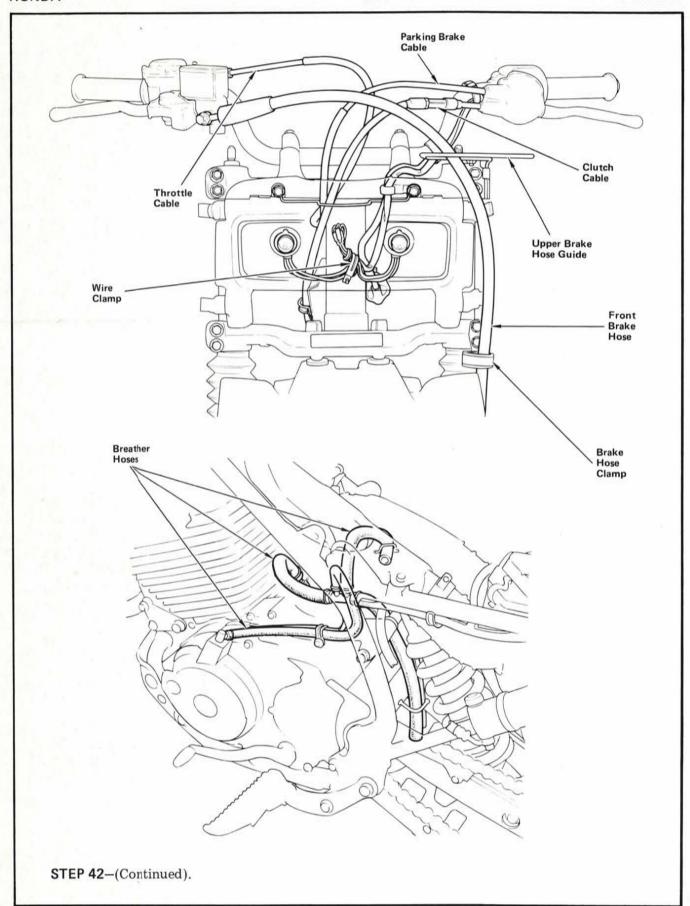


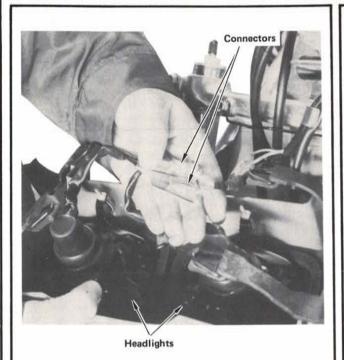
STEP 40—Remove protective covering from fuel tank by removing rubber band.



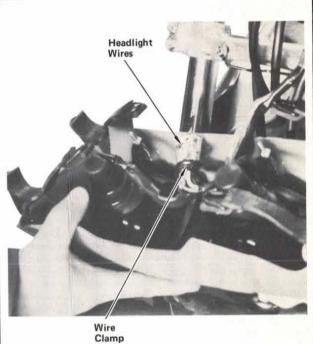
STEP 41—Attach handlebar wire harnesses to handlebar using two wire bands positioned where shown. Insert end of fuel tank cap breather tube into hole in steering stem nut as shown.







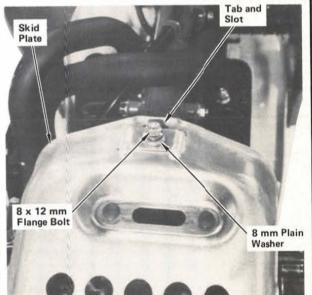
STEP 43—Connect headlight wires to wire harness color-to-color.



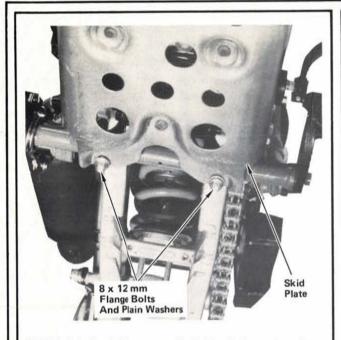
STEP 44—Squeeze wire clamp around headlight wires as shown.



STEP 45—Position headlight in front of fork legs as shown, and secure with four headlight retaining bands as shown.

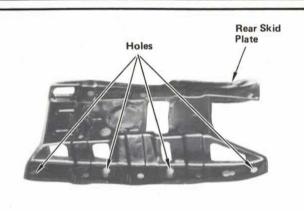


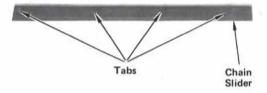
STEP 46—Hook tab on front of frame into slot in front of engine skid plate. Install front of skid plate using an 8×12 mm flange bolt and plain washer.



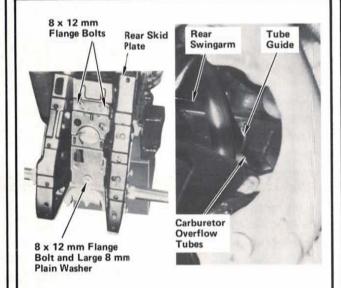
STEP 47—Install rear of skid plate using two 8 x 12 mm flange bolts and plain washers. Tighten all three skid plate attaching bolts to specified torque.

Torque specification: 2.7 kg-m (19 lb-ft)



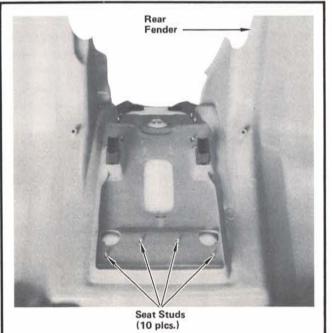


STEP 48—Press tabs of chain slider into holes in rear skid plate from the inside.

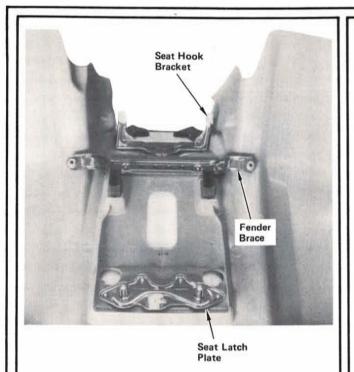


STEP 49—Position rear skid plate on frame as shown and install using three 8 x 12 mm flange bolts with an 8 mm plain washer under head of rear bolt. Tighten bolts to specified torque. Check that carburetor overflow tubes are routed through tube guide on rear swingarm.

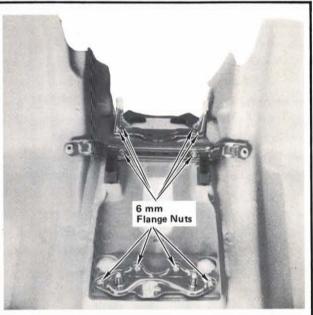
Torque specification: 2.7 kg-m (19 lb-ft)



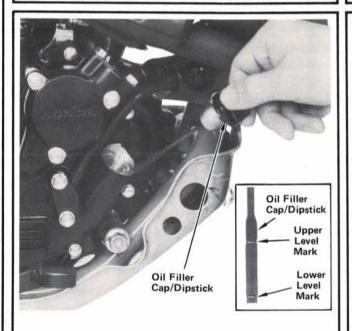
STEP 50—Place seat on top of rear fender, inserting the ten seat studs down through holes in rear fender as shown.



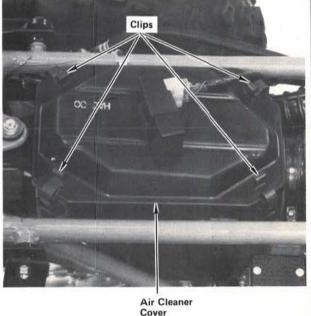
STEP 51—Position seat latch plate, fender brace, and seat hook bracket on studs under rear fender as shown.



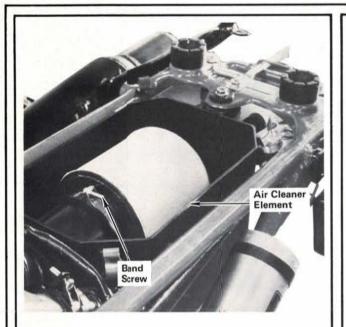
STEP 52—Install seat latch plate, fender brace, and seat hook bracket using a 6 mm flange nut on each stud. Tighten nuts securely.



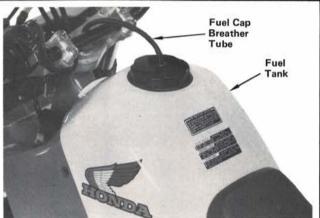
STEP 53—Remove oil filler cap/dipstick and fill crankcase with recommended oil as described in owner's manual or shop manual. Reinstall and tighten oil filler cap/dipstick.



STEP 54—Remove air cleaner cover by releasing four clips.

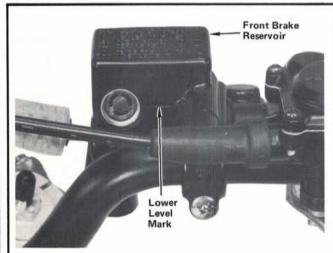


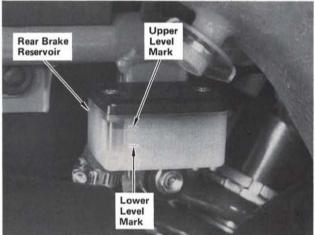
STEP 55—Loosen band screw and remove air cleaner element and holder. Check condition of element and clean if necessary as described in owner's manual or shop manual. Reinstall element and holder and tighten band screw securely. Reinstall air cleaner cover and reengage clips.



STEP 56—Drain fuel tank as described in shop manual. Remove, inspect, and flush fuel tank. Reinstall fuel tank, connect fuel line, fill tank, turn on fuel petcock and check for leaks and flow through fuel filter. Check that end of fuel cap breather tube is in hole in steering stem nut. Drain residual fuel from carburetor.

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



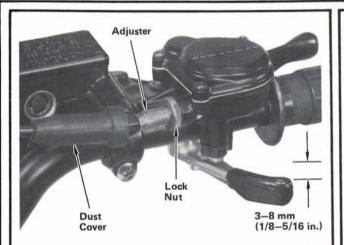


STEP 57—Check fluid level in front and rear brake reservoirs. If level is below upper level mark, remove cover and diaphragm and add DOT 3 or 4 brake fluid from a sealed container. Reinstall diaphragm and cover and tighten screws securely. Operate brake levers. If free play is excessive and reservoirs are filled to correct level, air is in the system. Bleed brake systems as described in shop manual.

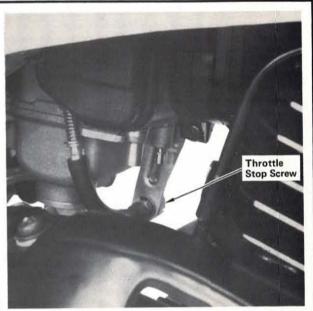
WARNING Brake fluid can cause irritation. Avoid contact with skin or eyes.

CAUTION: Use only DOT 3 or 4 brake fluid from a sealed container. Handle brake fluid with care as it can damage painted surfaces and plastic components.

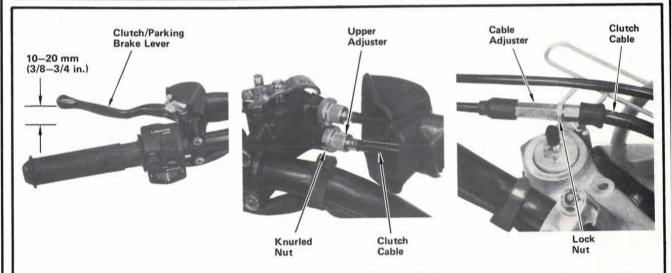
NOTE: The hydraulic disc type brakes require no free play adjustments.



STEP 58—Check throttle cable condition. Check that throttle lever free play is within 3—8 mm (1/8—5/16 in.) at tip of throttle lever. Check for smooth operation of throttle lever from fully open to fully closed in all steering positions and that throttle lever automatically returns from fully open to fully closed when released. If necessary to adjust free play, slip off dust cover, loosen lock nut, and turn adjuster to obtain correct free play. After adjustment, tighten lock nut and reinstall dust cover.

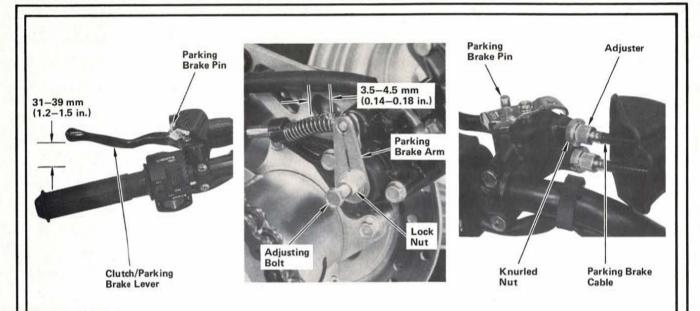


STEP 59—Connect a tachometer and check transmission in neutral. Start engine and allow it to warm up to operating temperature and check idle speed at $1,300 \pm 100$ rpm. If necessary, adjust idle speed using throttle stop screw. Remove tachometer.

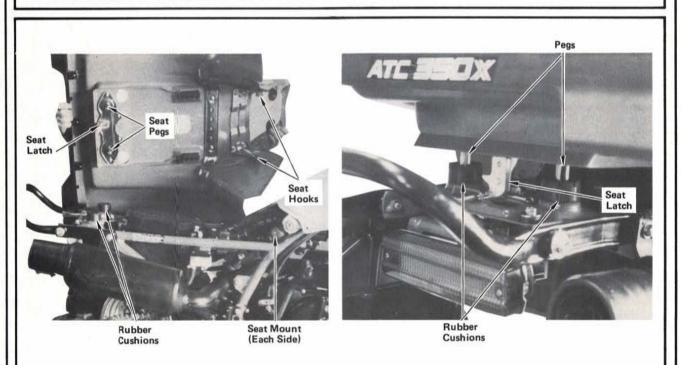


STEP 60—Check clutch lever free play at tip of clutch lever before clutch starts to disengage. Free play, measured at tip of clutch lever should be between 10 and 20 mm (3/8—3/4 in.). To adjust free play, loosen knurled nut and turn upper adjuster. If upper adjuster is turned out near its limit and correct free play cannot be obtained, screw upper adjuster all the way in and tighten knurled nut. Then use cable adjuster to obtain correct free play as follows. Loosen lock nut and turn cable adjuster to obtain correct free play. After adjustment, tighten lock nut.

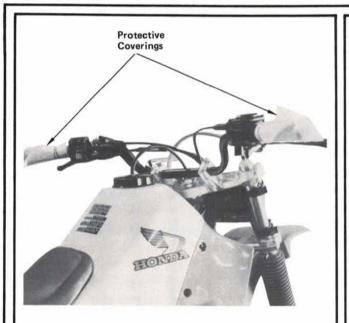
CAUTION: After adjusting clutch lever free play, start engine, pull in clutch lever and shift into gear. Check that engine does not stall and vehicle does not creep. Gradually release clutch lever and open throttle, vehicle should start smoothly and accelerate gradually.



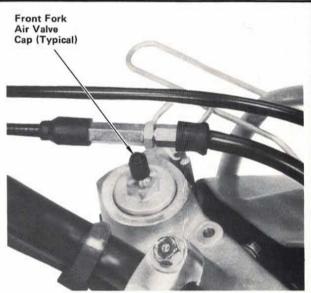
STEP 61—Check parking brake operation. Check that free play at tip of parking brake arm is 3.5—4.5 mm (0.14—0.18 in.). If adjustment is necessary, loosen lock nut on rear brake caliper and turn adjusting bolt until resistance is felt without squeezing clutch/parking brake lever. Tighten lock nut. Check that travel of clutch/parking brake hand lever is between 31 and 39 mm (1.2—1.5 in.) at tip of lever. If adjustment is necessary, loosen knurled nut, squeeze clutch/parking brake lever while pushing parking brake pin, and turn adjuster. Tighten lock nut and recheck brake arm free play at rear brake caliper. Install dust cover.



STEP 62—Install seat/rear fender by sliding seat hooks over seat mounts at rear of fuel tank and sliding seat forward. Align pegs of seat latch plate with holes in rubber cushions on frame. Press down on rear of seat until seat latch engages. Check that seat latch is fully engaged.

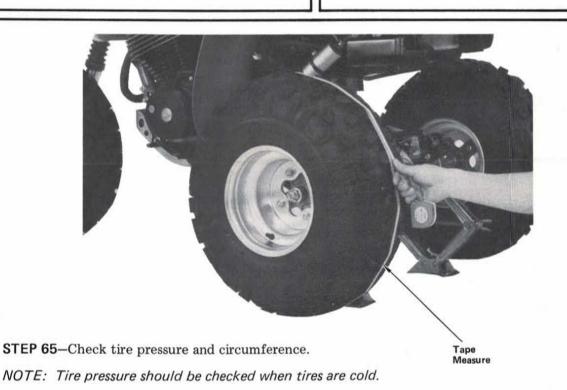


STEP 63—Remove protective coverings from handgrips.



STEP 64—Remove front fork air valve caps and check front fork air pressure as described in owner's manual or shop manual. Reinstall air valve caps.

Standard air pressure: 0 psi.



Standard circumference:

Front: 1901 mm (74.8 in.)

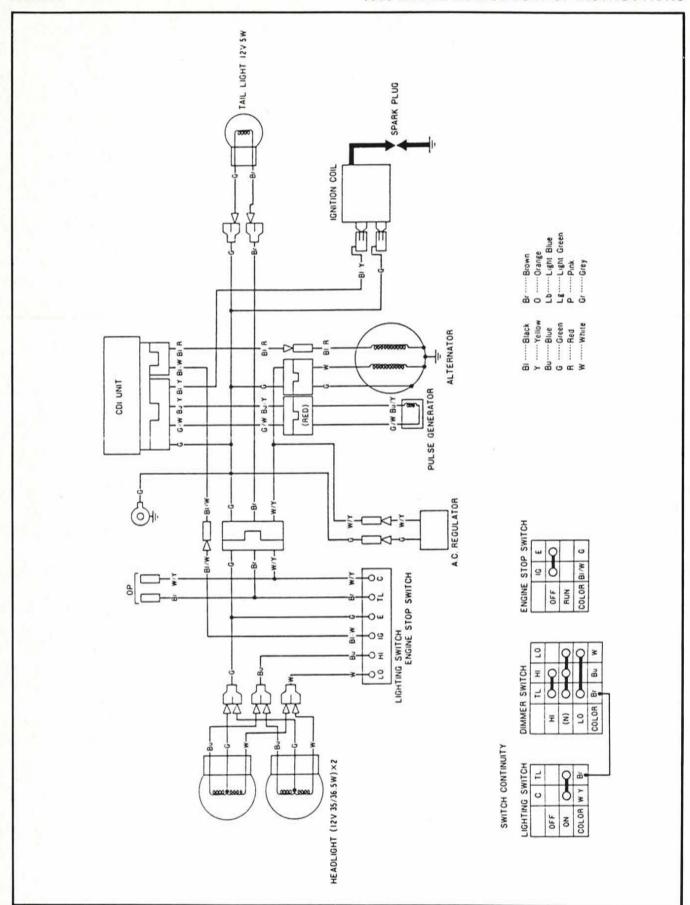
Rear: 1734 mm (68.3 in.)

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Recommended tire pressure:

Front: 4.0 psi.

Rear: 3.0 psi.



ITEM	SIZE	TORQUE
Handlebar upper holder bolts	8 mm	2.4 kg-m (18 lb-ft)
Fork leg bolts	8 mm	2.1 kg-m (16 lb-ft)
Front axle		6.0 kg-m (44 lb-ft)
Axle holder nuts		1.2 kg-m (9 lb-ft)
Front brake caliper bolts	8 mm	2.5 kg-m (18 lb-ft)
Master cylinder holder screws	6 mm	0.9 kg-m (7 lb-ft)
Front brake hose guide bolts	8 mm	2.1 kg-m (16 lb-ft)
Front brake hose clamp bolts	6 mm	1.2 kg-m (9 lb-ft)
Front fender bolts	6 mm	1.2 kg-m (9 lb-ft)
Rear axle nuts		14.5 kg-m (105 lb-ft
Carrying handle bolts	8 mm	2.7 kg-m (19 lb-ft)
Skid plate bolts	8 mm	2.7 kg-m (19 lb-ft)
Seat nuts	6 mm	1.0 kg-m (8 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	 Inspect electrical components for proper operation and adjustment. 			
☐ Fill front and rear brake master cylinder reservoirs with DOT 3 or DOT 4 brake fluid.	• Headlight: Adjust.			
Bleed brake systems if necessary.	• Taillight.			
Adjust parking brake and check cable routing. Check front and rear brake operation	• Engine stop switch.			
and brake hose routing.	 Check security of all nuts, bolts and oth fasteners. 			
Check crankcase oil level. If necessary, fill crankcase with recommended oil.	Check to ensure that all applicable recall and product update campaigns are complied with.			
 Remove and inspect fuel tank, drain and flush. Clean fuel filter. 	TEST RIDE: Check performance, handling, and operation.			
 Drain residual fuel from carburetor. 	• Transmission and clutch: Ease of shifting,			
Check air cleaner element. Oil if necessary.	clutch operation, etc.			
Adjust clutch, check cable routing and	 Acceleration: Smoothness, etc. 			
check operation.	 Cruising: Smoothness, etc. 			
Reinstall fuel tank, fill, turn on petcock and check for leaks.	 Handling: Stability and cornering. 			
☐ Adjust idle speed.	 Brakes: Smoothness and stopping power. 			
Check throttle lever free play, cable routing, and operation in all steering positions.	 Idling: Smoothness, throttle response, and return to idle. 			
☐ Lubricate drive chain, if necessary.	 Recheck idle speed after 10 minutes of stop and go operation. 			
☐ Check tire pressure.	Parking brake operation: Check.			
Check front fork air pressure.	• Upon completion of test ride, check for			
Check operation and adjustment of front and rear suspension.	fuel and oil leaks.			

LOOSE PARTS

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

PART NAME	αту	H/C	PART NUMBER
Owner's manual	1	2024636	31HA5600
Wire band B1	2	0468819	32161-404-000
Headlight Assembly	1		
Front brake hose clamp A	1	222222	45461-HA2-670
Front brake hose clamp B	$\bar{1}$		45462-HA2-670
Front brake hose clamp	ī		45463-HA5-010
Brake hose guide	1	0222222	45469-HA5-010
Skid plate	1		50355-HA5-030
Engine guard	1		50360-HA5-020
Skid plate slider	î	1828680	52156-HA2-000
Front fender assembly	î		
Seat	î	2022655	77100-HA5-000
Rear fender assembly	1	2022000	11100-11110-000
Rear fender catch	1		80101-HA5-010
Seat lock plate assembly	1		50101-11A0-010
Fender support bracket	1	2022945	80106-HA5-000
- 1 120 (BCN) 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1	1404482	81201-965-000
Carrier pipe mounting rubber		1404490	81202-965-000
Carrier pipe mounting collar	3		
Toolbox assembly	1	2023018	83500-HA5-000
Toolbox cushion	1	1510726	83517-965-000
Tool set	1	2023273	89010-HA5-000
8 x 40 mm flange bolt	3	1419258	90107-KF0-000
$5 \times 12 \text{ mm bolt/washer (after } 2/1/85)$	1	2031391	90111-HA5-000
8 x 12 mm flange bolt	6	1455377	90190-MG3-000
Special washer, 6.5 mm	4	1044288	90404-680-000
5×12 mm hex head bolt (prior to $2/1/85$)	1	0215871	92000-05012-0A
6 mm flange nut	10	0612689	94050-06080
8 mm plain washer	3	0059097	94101-08000
8 mm plain washer	4	0876896	94103-08000
5 mm plain washer (prior to $2/1/85$)	1	0876896	94103-08000
5 mm lock washer (prior to $2/1/85$)	1	0058966	94111-05000
Cotter pin, 4 x 40 mm	2	1047679	94201-40400
6 x 25 mm flange bolt	4	2024123	96400-06025-08
6 x 16 mm flange bolt	2	2028942	96500-06016-00
6 x 20 mm flange bolt	1	2024222	96500-06020-00
8 x 32 mm flange bolt	1	2024255	96500-08032-00
Rear axle side collar	2	1827757	42316-HA2-000
Rear wheel assembly	2		42600-HA5-020
Front wheel axle	1	1828060	44301-HA2-000
Front axle collar (left)	1	1828078	44311-HA2-000
Front axle collar (right)	1	1828086	44312-HA2-000
Front wheel assembly	1		44600-HA5-000
Front brake hose assembly	1		45126-HA5-010
Front caliper assembly	1		45200-HA5-020
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LOOSE PARTS (Continued)

PART NAME	QTY	H/C	PART NUMBER
Cable guide inner	1	2021343	45466-HA5-000
Front brake master cylinder assembly	1	1828235	45500-HA2-006
Brake hose guide	1	1828219	45468-HA2-000
Master cylinder holder	1	1046374	45517-961-000
Right front fork assembly	1		51400-HA5-013
Left front fork assembly	1		51500-HA5-013
Flange bolt, 8 x 40 mm	5	1419258	90107-KF0-000
Axle nut, 20 mm	2	1824424	90305-HA0-000
6 x 25 mm oval head screw	2		93700-06025-0B
8 x 35 mm flange bolt	2	1938554	95700-08035-02
8 x 50 mm flange bolt	2		96400-08050
8 x 35 mm flange bolt	1		96500-08035-00

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