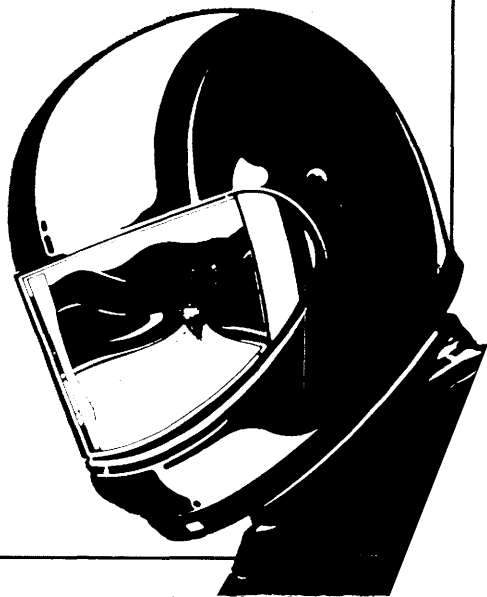


HONDA

OWNER'S MANUAL
MANUEL DU CONDUCTEUR
FAHRER-HANDBUCH

CBR1100XX



HONDA

CBR1100XX

OWNER'S MANUAL

MANUEL DU CONDUCTEUR

FAHRER-HANDBUCH

IMPORTANT NOTICE

- **OPERATOR AND PASSENGER**

This motorcycle is designed to carry the operator and one passenger. Never exceed the maximum weight capacity as shown on the tyre information label.

- **ON-ROAD USE**

This motorcycle is designed to be used only on the road.

- **READ THIS OWNER'S MANUAL CAREFULLY**

Pay special attention to statements preceded by the following words:

⚠ WARNING

Indicates a strong possibility of severe personal injury or death if instructions are not followed.

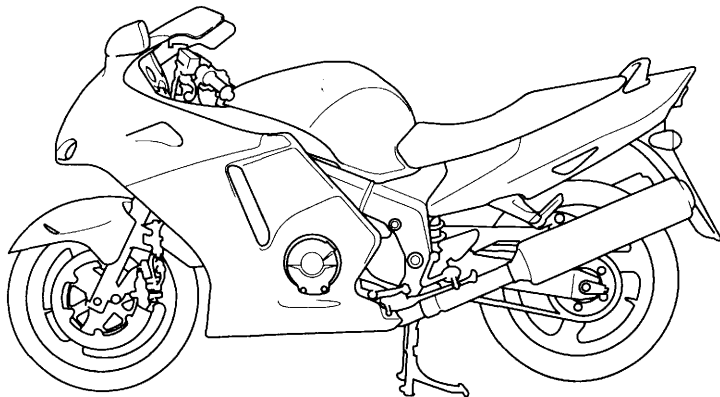
CAUTION:

Indicates a possibility of personal injury or equipment damage if instructions are not followed.

NOTE: Gives helpful information.

This manual should be considered a permanent part of the motorcycle and should remain with the motorcycle when resold.

HONDA CBR1100XX OWNER'S MANUAL



All information in this publication is based on the latest production information available at the time of approval for printing. HONDA MOTOR CO.,LTD. reserves the right to make changes at any time without notice and without incurring any obligation.

No part of this publication may be reproduced without written permission.

WELCOME

The motorcycle presents you a challenge to master the machine, a challenge to adventure. You ride through the wind, linked to the road by a vehicle that responds to your commands as no other does. Unlike an automobile, there is no metal cage around you. Like an airplane, a pre-ride inspection and regular maintenance are essential to your safety. Your reward is freedom.

To meet the challenges safely, and to enjoy the adventure fully, you should become thoroughly familiar with this owner's manual **BEFORE YOU RIDE THE MOTORCYCLE**.

When service is required, remember that your Honda dealer knows your motorcycle best. If you have the required mechanical "know-how" and tools, your dealer can supply you with an official Honda Service Manual to help you perform many maintenance and repair tasks.

Pleasant riding, and thank you for choosing a Honda !

- The illustrations and photos herein are based on the SW type.
- Following codes in this manual indicate each country.

E	UK	F	France
SD	Sweden	U	Australia
II G	Germany (Type II)	SW	Switzerland
ED	European direct sales Belgium Holland Spain Italy	AR	Austria
		ND	Northern Europe Finland Denmark Norway
		BR	Brazil

- The specifications may vary with each locale.

OPERATION

Page		Page	
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1	Safe Riding Rules	36	FEATURES
2	Protective Apparel		(Not required for operation)
2	Modifications	36	Steering Lock
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MAINTENANCE

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MOTORCYCLE SAFETY

▲WARNING

- **Motorcycle riding requires special efforts on your part to ensure your safety. Know these requirements before you ride:**

SAFE RIDING RULES

1. Always make a pre-ride inspection (page 48) before you start the engine. You may prevent an accident or equipment damage.
2. Many accidents involve inexperienced riders. Most countries require a special motorcycle riding test or license. Make sure you are qualified before you ride. NEVER lend your motorcycle to an inexperienced rider.
3. Many automobile/motorcycle accidents happen because the automobile driver does not "see" the motorcyclist. Make yourself conspicuous to help avoid the accident that wasn't your fault:
 - Wear bright or reflective clothing.
 - Don't ride in another motorist's "blind spot."

4. Obey all national and local laws and regulations.
 - Excessive speed is a factor in many accidents. Obey the speed limits, and NEVER travel faster than conditions warrant.
 - Signal before you make a turn or lane change. Your size and maneuverability can surprise other motorists.
5. Don't let other motorists surprise you. Use extra caution at intersections, parking lot entrances and exits, and driveways.
6. Keep both hands on the handlebars and both feet on the footpegs while riding. A passenger should hold on to the motorcycle or the operator with both hands and keep both feet on the passenger footpegs.

PROTECTIVE APPAREL

1. Most motorcycle accident fatalities are due to head injuries: ALWAYS wear a helmet. You should also wear a face shield or goggles as well as boots, gloves and protective clothing. A passenger needs the same protection.
2. The exhaust system becomes hot during operation, and it remains hot for a while after stopping the engine. Be careful not to touch the exhaust system while it is hot. Wear clothing that fully covers your legs.
3. Do not wear loose clothing which could catch on the control levers, footpegs, drive chain or wheels.

MODIFICATIONS

⚠ WARNING

- **Modification of the motorcycle, or removal of original equipment, may render the vehicle unsafe or illegal. Obey all national and local equipment regulations.**

LOADING AND ACCESSORIES

▲ WARNING

- **To prevent an accident, use extreme care when adding and riding with accessories and cargo. Addition of accessories and cargo can reduce a motorcycle's stability, performance and safe operating speed. Never ride an accessory-equipped motorcycle at speeds above 130 km/h (80 mph). And remember that this 130 km/h (80mph) limit may be reduced by installation of non-Honda accessories, improper loading, worn tyres and overall motorcycle condition, poor road or weather conditions. These general guidelines may help you decide whether or how to equip your motorcycle and how to load it safely.**

Loading

The combined weight of the rider, passenger, cargo and all accessories must not exceed the maximum weight capacity:

188 kg (415 lbs)

Cargo weight alone should not exceed:

27 kg (60 lbs)

1. Keep cargo and accessory weight low and close to the center of the motorcycle. Load weight equally on both sides to minimize imbalance. As weight is located further from the motorcycle's center of gravity, handling is proportionally affected.
2. Adjust tyre pressure (page 29) and rear suspension (page 15) to suit load weight and riding conditions.

3. Vehicle handling and stability can be adversely affected by loose cargo. Recheck cargo security and accessory mounts frequently.
4. The Honda fairing is designed for this motorcycle only. Do not install it on any other motorcycle.
5. Do not attach large or heavy items (such as a sleeping bag or tent) to the handlebars, fork, or fender. Unstable handling or slow steering response may result.

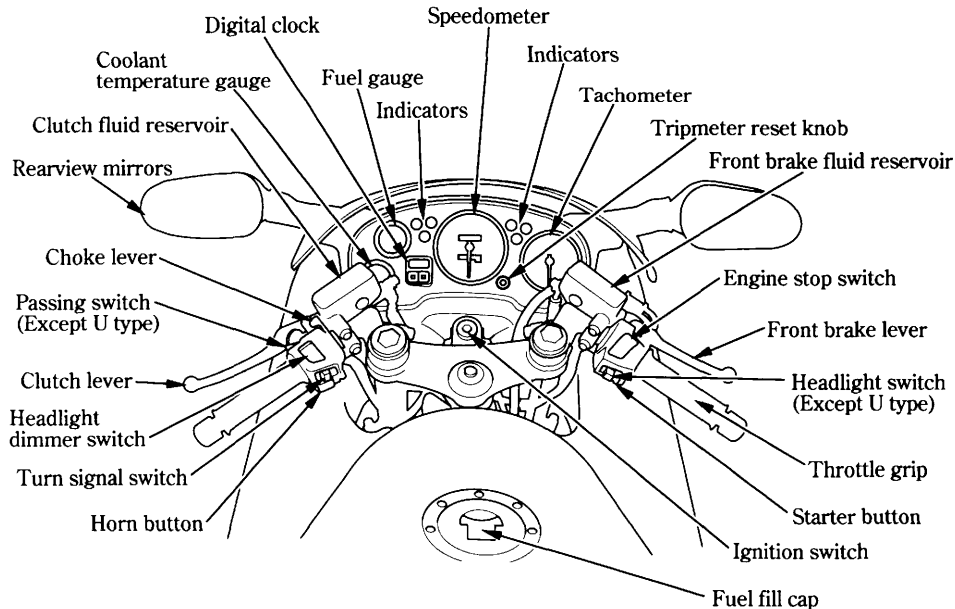
Accessories

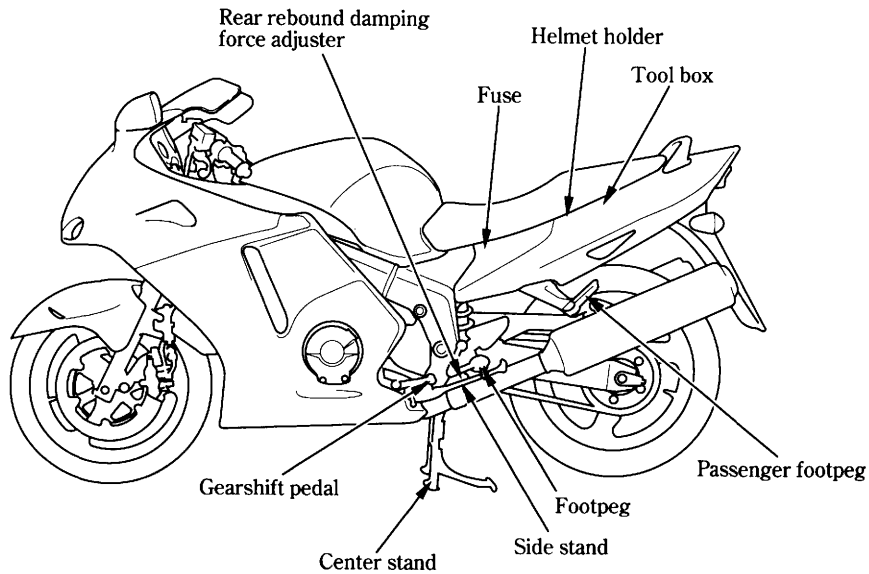
Genuine Honda accessories have been specifically designed for and tested on this motorcycle. Because the factory cannot test all other accessories, you are personally responsible for proper selection, installation, and use of non-Honda accessories. Always follow the guidelines under Loading, and these:

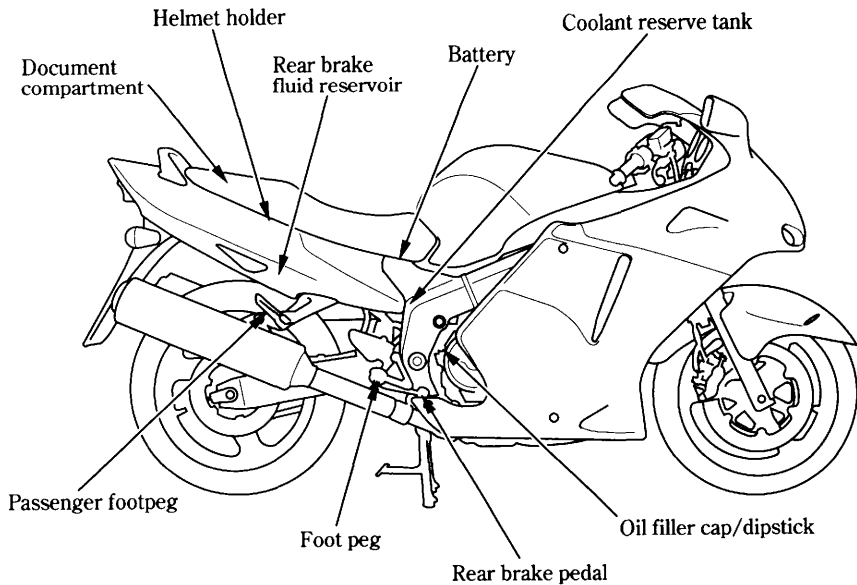
1. Carefully inspect the accessory to make sure it does not obscure any lights, reduce ground clearance and banking angle, or limit suspension travel, steering travel or control operation.
2. Large fork-mounted fairings or windshields, or poorly designed or improperly mounted fairings can produce aerodynamic forces that cause unstable handling. Do not install fairings that decrease cooling air flow to the engine.

3. Accessories which alter your riding position by moving hands or feet away from controls may increase reaction time in an emergency.
4. Do not add electrical equipment that will exceed the motorcycle's electrical system capacity. A blown fuse could cause a dangerous loss of lights or engine power.
5. This motorcycle was not designed to pull a sidecar or trailer. Handling may be seriously impaired if so equipped.
6. Any modification of the cooling system may cause overheating and serious engine damage. Do not modify the radiator shrouds or install accessories which block or deflect air away from the radiator.

PARTS LOCATION



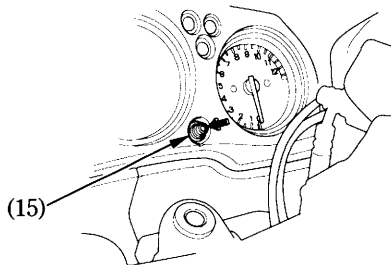
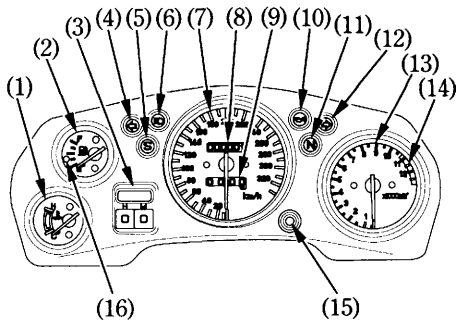




INSTRUMENTS AND INDICATORS

The indicators are contained in the instrument panel. Their functions are described in the tables on the following pages.

- (1) Coolant temperature gauge
- (2) Fuel gauge
- (3) Digital clock
- (4) Left turn signal indicator
- (5) Side stand indicator
- (6) High beam indicator
- (7) Speedometer
- (8) Odometer
- (9) Tripmeter
- (10) Low oil pressure indicator
- (11) Neutral indicator
- (12) Right turn signal indicator
- (13) Tachometer
- (14) Tachometer red zone
- (15) Tripmeter reset knob
- (16) Fuel indicator



(Ref. No.) Description	Function
(1) Coolant temperature gauge	Shows coolant temperature (see page 12).
(2) Fuel gauge	Shows approximate fuel supply available (see page 13).
(3) Digital clock	Shows hour and minute (page 14).
(4) Left turn signal indicator	Flashes when the left turn signal operates.
(5) Side stand indicator (amber)	Lights when the side stand is put down. Before parking, check that the side stand is fully down; the light only indicates the side stand ignition cut-off system (page 49) is activated.
(6) High beam indicator (blue)	Lights when the headlight is on high beam.
(7) Speedometer	Shows riding speed.
(8) Odometer	Shows accumulated mileage.
(9) Tripmeter	Shows mileage per trip.

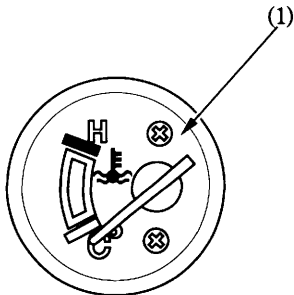
(Ref. No.) Description	Function
(10) Low oil pressure indicator (red)	Lights when engine oil pressure is below normal operating range. Should light when ignition switch is ON and engine is not running. Should go out when the engine starts, except for occasional flickering at or near idling speed when engine is warm. CAUTION: * Running the engine with insufficient oil pressure may cause serious engine damage.
(11) Neutral indicator (green)	Lights when the transmission is in neutral.
(12) Right turn signal indicator	Flashes when the right turn signal operates.
(13) Tachometer	Shows engine rpm.
(14) Tachometer red zone	Never allow the tachometer needle to enter the red zone, even after the engine has been broken in. CAUTION: * Running the engine beyond recommended maximum engine speed (the beginning of the tachometer red zone) can damage the engine.
(15) Tripmeter reset knob	Resets tripmeter to zero (0) by pushing the knob.
(16) Fuel indicator	Lights when there is only few fuel left in the fuel tank. about: 4.0ℓ (1.06 US gal, 0.88 Imp gal)

Coolant Temperature Gauge

When the needle begins to move above the C (Cold) mark, the engine is warm enough for the motorcycle to be ridden. The normal operating temperature range is within the section between the H and C marks. If the needle reaches the H (Hot) mark, stop the engine and check the reserve tank coolant level. Read pages 23 – 24 and do not ride the motorcycle until the problem has been corrected.

CAUTION:

*** Exceeding maximum running temperature may cause serious engine damage.**

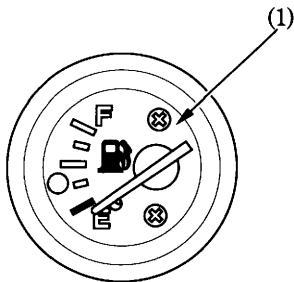


(1) Coolant temperature gauge

Fuel Gauge

When the gauge needle enters the red band (1), fuel will be low and you should refill the tank as soon as possible. The amount of fuel left in the tank when the needle enters the red band is approximately:

3.0 l (0.79 US gal , 0.66 imp gal)

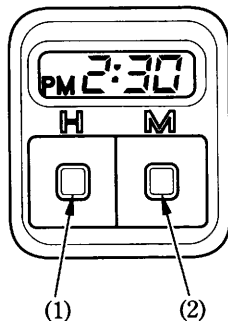


(1) Fuel gauge

Digital clock

Shows hour and minute. To adjust time, proceed as follows :

1. Turn the ignition switch ON.
2. Press the "H" button (1). To advance time, keep the button down until the desired hour is displayed.
3. Press the "M" button (2). To advance, hold the button down. The display will be returned to "00" when "60" minutes are reached without affecting the hour display.



- (1) H button
(2) M button

MAJOR COMPONENTS (Information you need to operate this motorcycle)

⚠ WARNING

- **If the Pre-ride Inspection (page 48) is not performed, severe personal injury or vehicle damage may result.**

SUSPENSION

Rear Suspension

The rear suspension can provide the desired ride under various rider/passenger weight and riding conditions through adjustments of the rebound damping adjuster.

Rebound damping force adjustment :

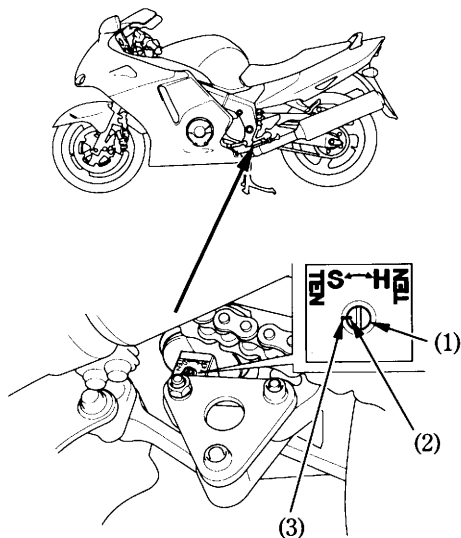
The damping force adjuster (1) is located behind the left step holder.

To reduce damping force:
turn the adjuster counterclockwise.

To increase damping force:
turn the adjuster clockwise.

To adjust the adjuster to the standard position, proceed as follows :

1. Turn the damping adjuster (1) clockwise until it will no longer turn. This is the full hard setting.
2. The adjuster is set in the standard position when the adjuster is turned counterclockwise approximately 1 turn so that its punch mark (2) aligns with the reference punch mark (3).



- (1) Rebound damping force adjuster
(2) Punch mark
(3) Reference punch mark

CAUTION: (II G only)

- * Do not touch the exhaust pipe when adjusting the rebound damping adjuster.

⚠ WARNING

- * The rear shock absorber assembly includes a damper unit that contains high pressure nitrogen gas. The instructions found in this owner's manual are limited to adjustment of the shock assembly only. Do not attempt to disassemble, disconnect or service the damper unit; an explosion causing serious injury may result.
- * Puncture or exposure to flame may also result in an explosion, causing serious injury.
- * Service or disposal should only be done by your authorized Honda dealer or a qualified mechanic, equipped with the proper tools, safety equipment and the official Honda Shop Manual.

BRAKES

Both the front and rear brakes are the hydraulic disc types.

As the brake pads wear, the brake fluid level drops.

There are no adjustments to perform, but fluid level and pad wear must be inspected periodically. The system must be inspected frequently to ensure there are no fluid leaks. If the control lever or pedal free travel becomes excessive and the brake pads are not worn beyond the recommended limit (page 94), there is probably air in the brake system and it must be bled. See your authorized Honda dealer for this service.

Front Brake

Front Brake Fluid Level:

▲WARNING

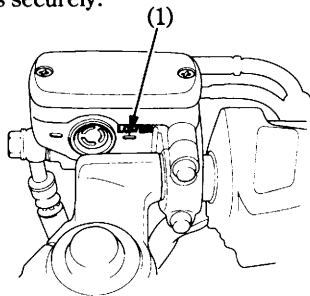
- * **Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.**
- * **KEEP OUT OF REACH OF CHILDREN.**

CAUTION:

- * **Handle brake fluid with care because it can damage plastic and painted surfaces.**
- * **When adding brake fluid, be sure the reservoir is horizontal before the cap is removed or brake fluid may spill out.**
- * **Use only DOT 4 brake fluid from a sealed container.**
- * **Never allow contaminants such as dirt or water to enter the brake fluid reservoir.**

Check that the fluid level is above the LOWER level mark (1) with the motorcycle in an upright position.

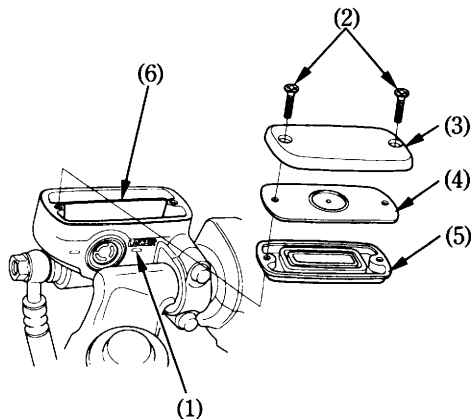
Brake fluid must be added to the reservoir whenever the fluid level begins to reach the LOWER level mark (1). Remove the screws (2), reservoir cover (3), diaphragm plate (4), and diaphragm (5). Fill the reservoir with DOT 4 BRAKE FLUID from a sealed container up to the UPPER level mark (6). Reinstall the diaphragm, diaphragm plate, and cover. Tighten the screws securely.



(1) LOWER level mark

Other Checks:

Make sure there are no fluid leaks. Check for deterioration or cracks in the hoses and fittings.



(2) Screws

(3) Reservoir cover

(4) Diaphragm plate

(5) Diaphragm

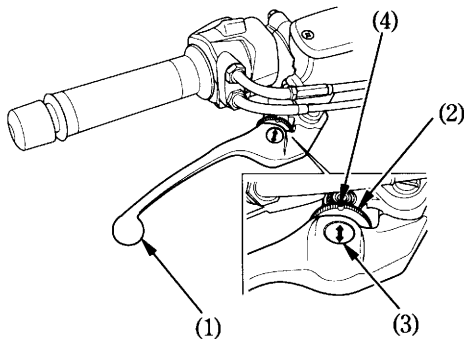
(6) Upper level mark

Front Brake Lever:

The distance between the tip of the brake lever (1) and the grip can be adjusted by turning the adjuster (2).

CAUTION:

- * **Align the arrow (3) on the brake lever with index mark (4) on the adjuster.**



- (1) Brake lever
(2) Adjuster

- (3) Arrow
(4) Index mark

Rear Brake

Rear brake fluid level:

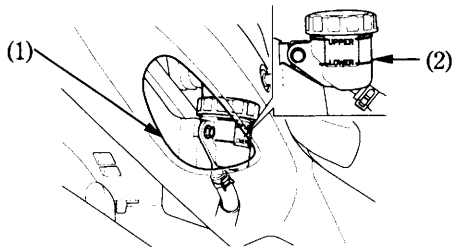
⚠ WARNING

- * **Brake fluid may cause irritation. Avoid contact with skin or eyes. In case of contact, flush thoroughly with water and call a doctor if your eyes were exposed.**
- * **KEEP OUT OF REACH OF CHILDREN.**

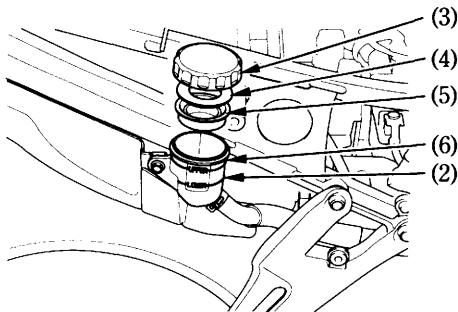
CAUTION:

- * **Handle brake fluid with care because it can damage plastic and painted surfaces.**
- * **When adding brake fluid, be sure the reservoir is horizontal before the cap is removed or brake fluid may spill out.**
- * **Use only DOT 4 brake fluid from a sealed container.**
- * **Never allow contaminants such as dirt or water to enter the brake fluid reservoir.**

Check the brake fluid level from the inspection window (1) of the rear cowl with the motorcycle in an upright position. Brake fluid must be added to the reservoir whenever the fluid level begins to reach the LOWER level mark (2). Remove the rear cowl (page 41). Remove the reservoir cap (3), diaphragm plate (4) and diaphragm (5). Fill the reservoir with DOT 4 BRAKE FLUID from a sealed container up to the UPPER level mark (6). Reinstall the diaphragm, diaphragm plate and cap securely.



- (1) Inspection window
- (2) LOWER level mark



- (3) Reservoir cap
- (4) Diaphragm plate
- (5) Diaphragm
- (6) UPPER level mark

Other Checks:

Make sure there are no fluid leaks. Check for deterioration or cracks in the hoses and fittings.

CLUTCH

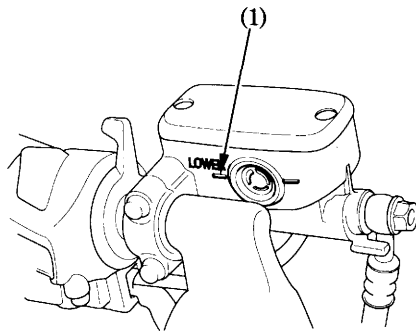
This motorcycle has a hydraulically actuated clutch. There are no adjustments to perform but the clutch system must be inspected periodically for fluid level and leakage. If the control lever freeplay becomes excessive and the motorcycle creeps or stalls when shifted into gear, or if the clutch slips, causing acceleration to lag behind engine speed, there is probably air in the clutch system and it must be bled out. See your authorized Honda dealer for this service.

Fluid level:

Check that the fluid level is above the LOWER level mark (1) with the motorcycle in an upright position. If the fluid level is near the lower level line, it indicates fluid leakage. See your authorized Honda dealer.

Other Checks:

Make sure there are no fluid leaks. Check for deterioration or cracks in the hoses and fittings.

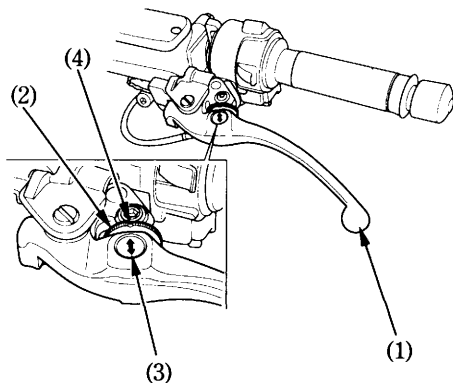


(1) LOWER level mark

Clutch Lever:

The distance between the tip of the clutch lever (1) and the grip can be adjusted by turning the adjuster (2).

Align the arrow (3) on the clutch lever with the index mark (4) on the adjuster.



(1) Clutch lever

(2) Adjuster

(3) Arrow

(4) Index mark

COOLANT

Coolant Recommendation

The owner must properly maintain the coolant to prevent freezing, overheating, and corrosion. Use only high quality ethylene glycol antifreeze containing corrosion protection inhibitors specifically recommended for use in aluminum engines. (SEE ANTIFREEZE CONTAINER LABEL).

CAUTION:

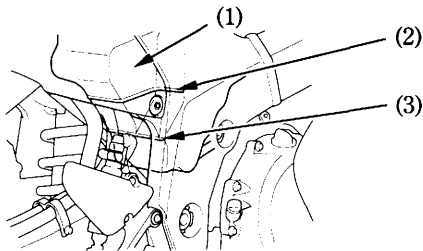
- * Use only low-mineral drinking water or distilled water as a part of the antifreeze solution. Water that is high in mineral content or salt may be harmful to the aluminum engine.**

The factory provides a 50/50 solution of antifreeze and distilled water in this motorcycle. This coolant solution is recommended for most operating temperatures and provides good corrosion protection. A higher concentration of antifreeze decreases the cooling system performance and is recommended only when additional protection against freezing is needed. A concentration of less than 40/60 (40 % antifreeze) will not provide proper corrosion protection. During freezing temperatures, check the cooling system frequently and add higher concentrations of antifreeze (up to a maximum of 60 % antifreeze) if required.

Inspection

The reserve tank is behind the frame.

Check the coolant level in the reserve tank (1) while the engine is at the normal operating temperature with the motorcycle in an upright position. If the coolant level is below the LOWER level mark (3), remove the seat (page 38) and reserve tank cap (4) and add coolant mixture until it reaches the UPPER level mark (2). Always add coolant to the reserve tank. Do not attempt to add coolant by removing the radiator cap.



(1) Reserve tank

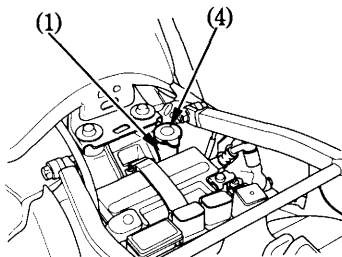
(3) LOWER level mark

(2) UPPER level mark

▲WARNING

- * **Do not remove the radiator cap when the engine is hot. The coolant is under pressure and could scald you.**
- * **Keep hands and clothing away from the cooling fan, as it starts automatically.**

If the reserve tank is empty, or if coolant loss is excessive, check for leaks and see your authorized Honda dealer for repair.



(1) Reserve tank

(4) Reserve tank cap

FUEL

Fuel Tank

The fuel tank capacity including the reserve supply is:

22.0 l (5.81 US gal, 4.84 Imp gal)

To open the fuel fill cap (1), insert the ignition key (2) and turn it clockwise. The fuel fill cap is hinged and will lift up.

After refueling, to close the fuel fill cap, push the fuel fill cap into the filler neck until it snaps closed and locks. Remove the key.

Except U, II G:

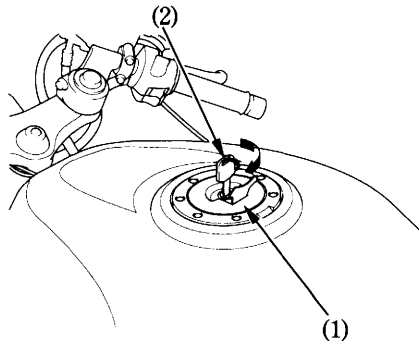
Use unleaded or low-lead petrol with a research octane number of 91 or higher. We recommend that you use unleaded petrol because it produces fewer engine and spark plug deposits and extends the life of exhaust system components.

For U, II G only

Use unleaded petrol with a research octane number of 91 or higher.

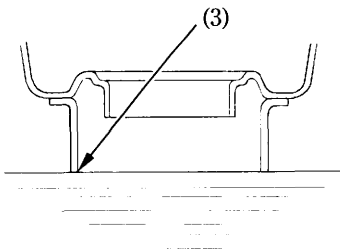
CAUTION:

* If “spark knock” or “pinking” occurs at a steady engine speed under normal load, change brands of petrol. If spark knock or pinking persists, consult your authorized Honda dealer. Failure to do so is considered misuse, and damage caused by misuse is not covered by Honda's Limited Warranty.



(1) Fuel tank cap

(2) Ignition key



(3) Filler neck

▲WARNING

- * Petrol is extremely flammable and is explosive under certain conditions. Refuel in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where petrol is stored or where the fuel tank is refueled.
- * Do not overfill the tank (there should be no fuel in the filler neck (3)). After refueling, make sure the fuel fill cap is closed securely.
- * Be careful not to spill fuel when refueling. Spilled fuel or fuel vapor may ignite. If any fuel is spilled, make sure the area is dry before starting the engine.
- * Avoid repeated or prolonged contact with skin or breathing of vapor. **KEEP OUT OF REACH OF CHILDREN.**

Petrol Containing Alcohol

If you decide to use a petrol containing alcohol (gasohol), be sure it's octane rating is at least as high as that recommended by Honda. There are two types of "gasohol": one containing ethanol, and the other containing methanol. Do not use petrol that contains more than 10% ethanol. Do not use petrol containing methanol (methyl or wood alcohol) that does not also contain cosolvents and corrosion inhibitors for methanol. Never use petrol containing more than 5% methanol, even if it has cosolvents and corrosion inhibitors.

NOTE:

- Fuel system damage or engine performance problems resulting from the use of fuels that contain alcohol is not covered under the warranty. Honda cannot endorse the use of fuels containing methanol since evidence of their suitability is as yet incomplete.
- Before buying fuel from an unfamiliar station, try to find out if the fuel contains alcohol. If it does, confirm the type and percentage of alcohol used. If you notice any undesirable operating symptoms while using a petrol that contains alcohol, or one that you think contains alcohol, switch to a petrol that you know does not contain alcohol.

ENGINE OIL

Engine Oil Level Check

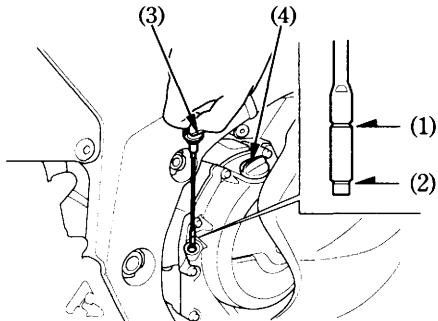
Check the engine oil level each day before riding the motorcycle.

The level must be maintained between the upper (1) and lower (2) level marks on the dipstick (3).

1. Start the engine and let it idle for a few minutes. Make sure the red low oil pressure indicator goes off. If the light remains on, stop the engine immediately.
2. Stop the engine and put the motorcycle on its center stand on level ground.
3. After a few minutes, remove the dipstick, wipe it clean, and reinsert the dipstick without screwing it in. Remove the dipstick. The oil level should be between the upper and lower marks on the dipstick.
4. If required, remove the oil filler cap (4) and add the specified oil (see page 67) up to the upper level mark. Do not overfill.
5. Reinstall the dipstick and oil filler cap. Check for oil leaks.

CAUTION:

- * Running the engine with insufficient oil can cause serious engine damage.



(1) Upper level mark

(2) Lower level mark

(3) Dipstick

(4) Oil filler cap

TUBELESS TYRES

This motorcycle is equipped with tubeless tyres, valves, and wheel rims. Use only tyres marked "TUBELESS" and tubeless valves on rims marked "TUBELESS TYRE APPLICABLE."

Proper air pressure will provide maximum stability, riding comfort and tyre life.

Check tyre pressure frequently and adjust if necessary.

NOTE:

- * Tyre pressure should be checked before you ride while the tyres are "cold".
- * Tubeless tyres have some degree of selfsealing ability if they are punctured, and leakage is often very slow. Inspect very closely for punctures, especially if the tyre is not fully inflated.

		Front	Rear
Tyre size		120/70 ZR17	180/55 ZR17
Cold tyre pressures kPa (kgf/cm ² , psi)	Driver only	290 (2.90 , 42)	290 (2.90 , 42)
	Driver and one passenger	290 (2.90 , 42)	290 (2.90 , 42)
Tyre brand (TUBELESS ONLY)			
BRIDGESTONE	Front	BT57F RADIAL G	
	Rear	BT57R RADIAL G	
DUNLOP	Front	D205F J	
	Rear	D205 G	
MICHELIN	Front	MACADAM 90XS	
	Rear	MACADAM 90XS	

Check the tyres for cuts, embedded nails or other sharp objects. Check the rims for dents or deformation. If there is any damage, see your authorized Honda dealer for repair, replacement, and balancing.

⚠ WARNING

- * Improper tyre inflation will cause abnormal tread wear and create a safety hazard. Underinflation may result in the tyre slipping on, or coming off of the rim causing tyre deflation that may result in a loss of vehicle control.**
- * Operation with excessively worn tyres is hazardous and will adversely affect traction and handling.**

Replace tyres before tread depth at the center of the tyre reaches the following limit:

Minimum tread depth	
Front :	1.5 mm (0.06 in)
Rear :	2.0 mm (0.08 in)

NOTE: < For Germany >

- * German law prohibits use of tyres whose tread depth is less than 1.6 mm.**

Tyre Repair/Replacement:

See your authorized Honda Dealer.

⚠ WARNING

- * The use of tyres other than those listed on the tyre information label may adversely affect handling.
- * Do not install tube-type tyres on tubeless rims. The beads may not seat and the tyres could slip on the rims, causing tyre deflation that may result in a loss of vehicle control.
- * Do not install a tube inside a tubeless tyre. Excessive heat build-up may cause the tube to burst resulting in rapid tyre deflation that may result in a loss of vehicle control.
- * Replace the tyre if the sidewall is punctured or damaged. Sidewall flexing may cause repair failure and tyre deflation that may result in a loss of vehicle control.

⚠ WARNING

- * To avoid possible repair failure and tyre deflation that may result in a loss of vehicle control, do not exceed 80 km/h (50 mph) for the first 24 hours, or 130 km/h (80 mph) at any time, after tyre repair.
- * Proper wheel balance is necessary for safe, stable handling of the motorcycle. Do not remove or change any wheel balance weights. When wheel balancing is required, see your authorized Honda dealer. Wheel balancing is required after tyre repair or replacement.

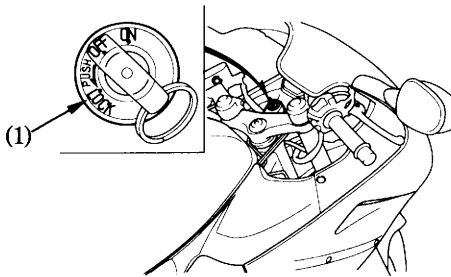
CAUTION:

- * Do not try to remove tubeless tyres without special tools and rim protectors. You may damage the rim sealing surface or disfigure the rim.

ESSENTIAL INDIVIDUAL COMPONENTS

IGNITION SWITCH

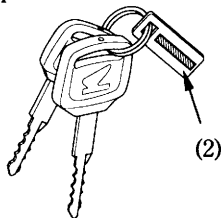
The ignition switch (1) is below the indicator panel.



(1) Ignition switch

You should received a key number plate (2) with your key.

You will need this key number if you ever have to replace a lost key. Store this plate in a safe place.



(2) Key number plate

Key Position	Function	Key Removal
LOCK (steering lock)	Steering is locked. Engine and lights cannot be operated.	Key can be removed
OFF	Engine and lights cannot be operated.	Key can be removed
ON	Engine and lights can be operated.	Key cannot be removed

RIGHT HANDLEBAR CONTROLS

〈 Except AUSTRALIA 〉

Engine Stop Switch

The engine stop switch (1) is next to the throttle grip. When the switch is in the

○ (RUN) position, the engine will operate. When the switch is in the ☒ (OFF) position, the engine will not operate. This switch is intended primarily as a safety or emergency switch and should normally remain in the ○ (RUN) position.

CAUTION: (II G only)

- * Do not operate the engine stop switch unnecessarily while driving.

Headlight Switch

The headlight switch (2) has three positions; ☼, ☛ and OFF marked by a dot to the right of ☛.

☼ : Headlight, taillight, position light and meter lights on.

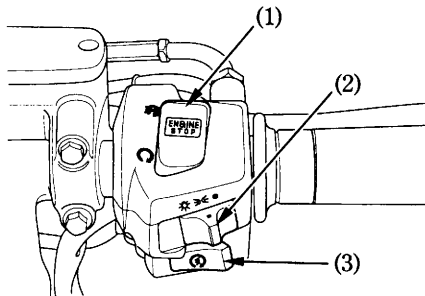
☛ : Position light, taillight and meter lights on.

OFF (dot) : Headlight, taillight, position light and meter lights off.

Starter Button

The starter button (3) is below the headlight switch (2).

When the starter button is pressed, the starter motor cranks the engine. If the engine stop switch is in the ☒ (OFF) position, the starter motor will not operate. See page 50 for the starting procedure.



- (1) Engine stop switch
- (2) Headlight switch
- (3) Starter button

RIGHT HANDLEBAR CONTROLS

〈 For AUSTRALIA only 〉

Engine Stop Switch

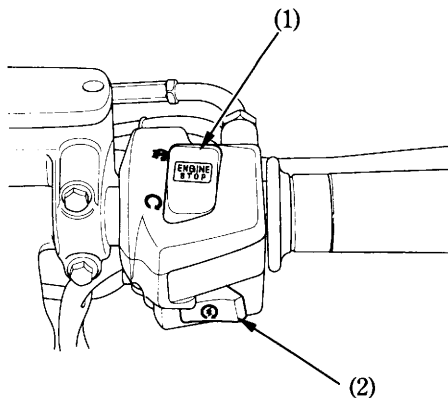
The engine stop switch (1) is next to the throttle grip. When the switch is in the

○ (RUN) position, the engine will operate. When the switch is in the ⊗ (OFF) position, the engine will not operate. This switch is intended primarily as a safety or emergency switch and should normally remain in the ○ (RUN) position.

Starter Button

The starter button (2) is below the engine stop switch (1).

When the starter button is pressed, the starter motor cranks the engine. If the engine stop switch is in the ⊗ (OFF) position, the starter motor will not operate. See page 50 for the starting procedure.



- (1) Engine stop switch
- (2) Starter button

LEFT HANDLEBAR CONTROLS

Headlight Dimmer Switch (1)

Push the dimmer switch to  D (HI) to select high beam or to  D (LO) to select low beam.

〈 Except AUSTRALIA 〉

Passing Light Control Switch (2)

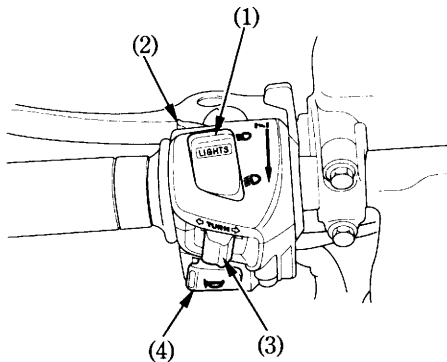
When this switch is pressed, the headlight flashes on to signal approaching cars or when passing.

Turn Signal Switch (3)

Move to  (L) to signal a left turn,  (R) to signal a right turn. Press to turn signal off.

Horn Button (4)

Press the button to sound the horn.



- (1) Headlight dimmer switch
- (2) Passing light control switch
- (3) Turn signal switch
- (4) Horn button

FEATURES

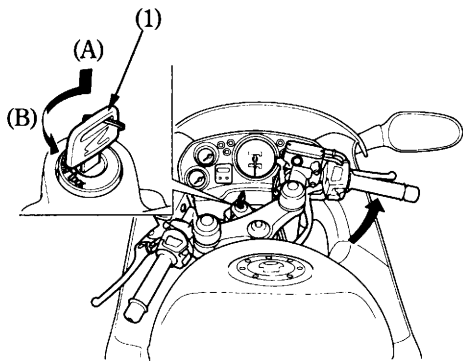
(Not required for operation)

STEERING LOCK

To lock the steering, turn the handlebars all the way to the left or right, turn the key (1) to LOCK while pushing in. Remove the key.

▲WARNING

* Do not turn the key to LOCK while riding the motorcycle; loss of vehicle control will result.



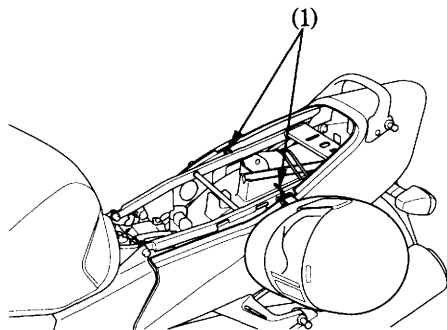
(1) Ignition key

(A) Push in

(B) Turn to LOCK

HELMET HOLDER

The helmet holders are located below the seat. Remove the seat (see page 38). Hang the helmets on the holder hooks (1). Install the seat and lock it securely.



(1) Holder hooks

⚠ WARNING

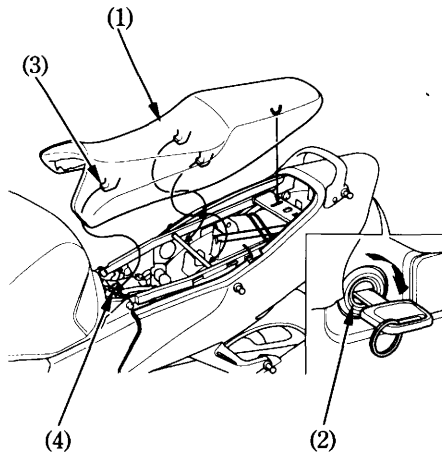
- * **The helmet holder is designed for helmet security while parked. Do not ride with a helmet attached to the holder; the helmet may interfere with safe operation and result in loss of control.**

SEAT

To remove the seat (1), insert the ignition key into the seat lock (2) and turn it clockwise . Pull the seat back and up. To install the seat, insert the prong (3) into the recess (4) under the frame cross member and then push down on the rear of the seat.

CAUTION:

*** Be sure the seat is locked securely in position after installation.**



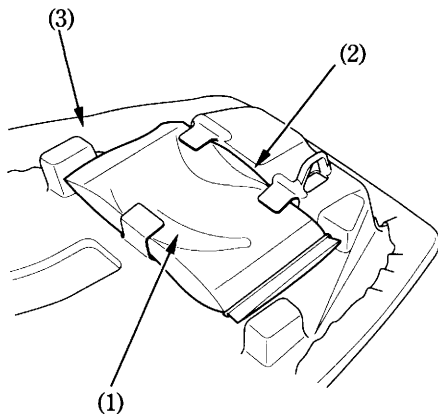
- (1) Seat
- (2) Seat lock

- (3) Prong
- (4) Recess

DOCUMENT BAG

The document bag (1) is in the document compartment (2) on the reverse side of the seat (3).

This owner's manual and other documents should be stored in the document bag. When washing your motorcycle, be careful not to flood this area with water.



(1) Document bag

(3) Seat

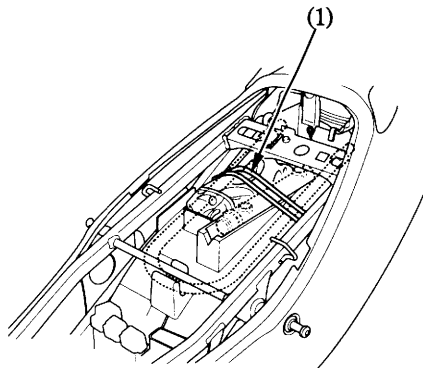
(2) Document compartment

STORAGE COMPARTMENT FOR U-SHAPED ANTI-THEFT LOCK

The rear fender has a storage compartment to store a U-shaped anti-theft lock under the seat. After storing, be sure to fasten the lock with the rubber band (1) securely.

NOTE:

- * Some U-shaped locks may not be stored in the compartment due to their size or design.



(1) Rubber band

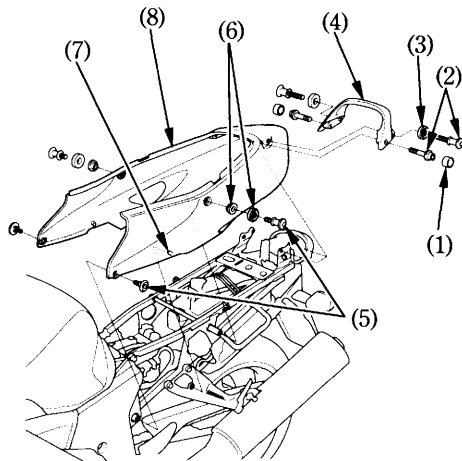
REAR COWL

Removal:

1. Remove the seat (page 38).
2. Remove the cap (1), bolts (2) and washers (3).
3. Remove the rear grab rail (4).
4. Remove the bolts (5) and washers (6).
5. Carefully pry up on the front prongs (7) of the rear cowl (8) and remove the rear cowl (8) by sliding it toward the rear.

Installation:

- Installation can be done in the reverse order of removal.

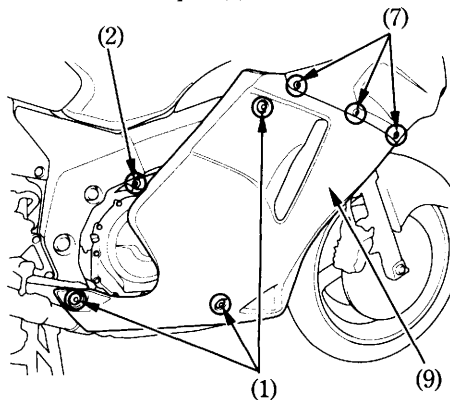


- | | |
|--------------------|---------------|
| (1) Cap | (5) Bolts |
| (2) Bolts | (6) Washers |
| (3) Washer | (7) Prong |
| (4) Rear grab rail | (8) Rear cowl |

LOWER COWL

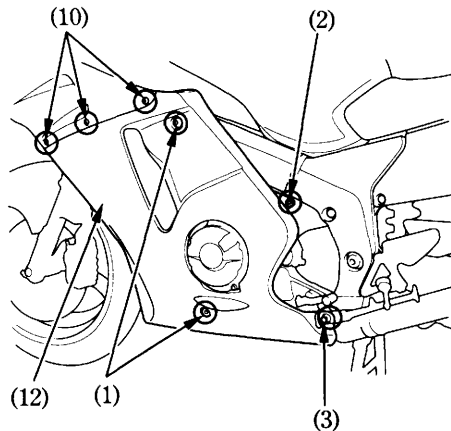
Removal:

1. Remove the bolts A (1) and bolts B (2).
2. Remove the clip A (3).



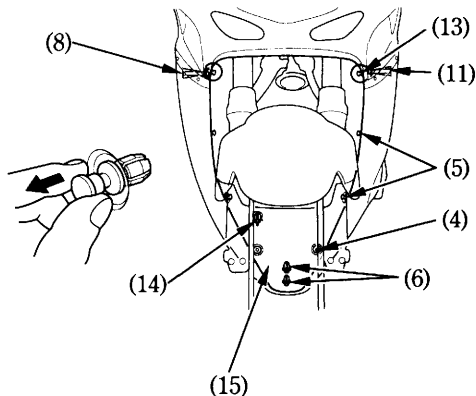
- (1) Bolts A
- (2) Bolts B
- (3) Clip A

- (7) Bolts D
- (9) Right lower cowl



- (10) Bolts E
- (12) Left lower cowl

3. Remove the bolts C (4).
4. Remove the clip B (5) and clip C (6).
5. Remove the bolts D (7).
6. Release the prong (8) of the right lower cowl (9) from the grommet and remove the right lower cowl.
7. Remove the bolts E (10).
8. Release the prong (11) of the left lower cowl (12) from the grommet and remove the left lower cowl.
9. Remove the clip D (13).
10. Release the prongs (14) of the inner half cowl (15) from the frame grommets and remove the inner half cowl (15).



Installation:

- Installation can be done in the reverse order of removal.

- | | | |
|------------|------------|----------------------|
| (4) Bolt C | (8) Prong | (13) Clip D |
| (5) Clip B | (11) Prong | (14) Prong |
| (6) Clip C | | (15) Inner half cowl |

UPPER COWL COVER

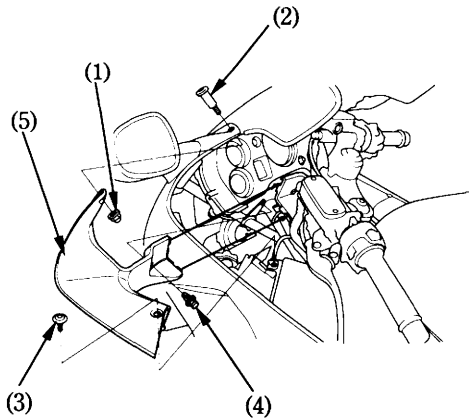
The right and left upper cowl covers can be removed in the same manner.

Removal:

1. Remove the nut (1) and long mount bolt (2).
2. Remove the short mount bolt (3).
3. Remove the clip (4).
4. Remove the upper cowl cover (5).

Installation:

- Installation can be done in the reverse order of removal.



(1) Nut

(2) Long mount bolt

(3) Short mount bolt

(4) Clip

(5) Upper cowl cover

INNER PANEL

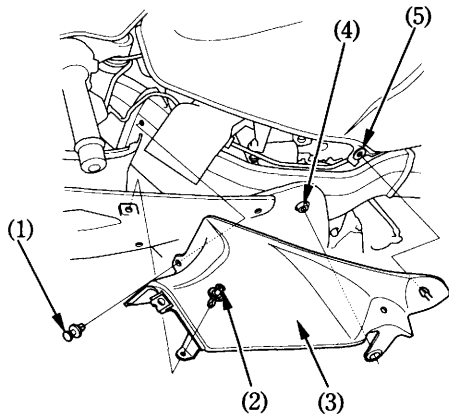
The right and left inner panels can be removed in the same manner.

Removal:

1. Remove the lower cowl (page 42) and upper cowl cover (page 44).
2. Remove the clip A (1).
3. Remove the clip B (2).
4. Remove the inner panel (3) by releasing it from the frame boss (4).
5. Remove the inner panel (3) by releasing it from the grommets (5) on the fuel tank.

Installation:

- Installation can be done in the reverse order of removal.



- (1) Clip A
(2) Clip B
(3) Inner panel

- (4) Frame boss
(5) Grommet

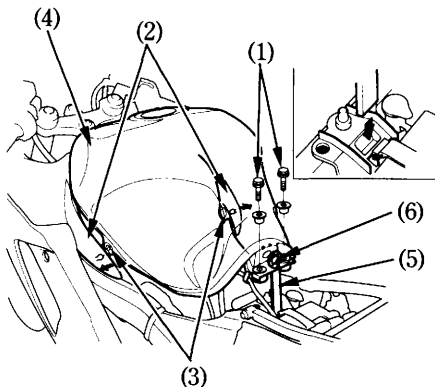
FUEL TANK MAINTENANCE POSITION

The rear of the fuel tank can be tilted up for maintenance.

The fuel tank does not require draining.

To raise:

1. Remove the two bolts (1) with washers.
2. Remove the right and left inner panels (2) from the fuel tank by releasing it from the grommets (3) on the fuel tank.
3. Raise the rear of the fuel tank (4) and place an extension bar (5) from the tool set between the rear of the fuel tank and frame.
4. Insert a 27mm box end wrench (6) from the tool set in the extension bar to hold the fuel tank in its applied position.



- (1) Bolts
(2) Inner panels
(3) Grommets

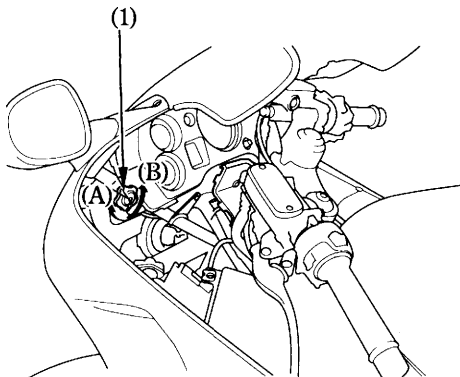
- (4) Fuel tank
(5) Extension bar
(6) 27mm box end wrench

HEADLIGHT AIM VERTICAL ADJUSTMENT

Vertical adjustment can be made by turning the knob (1) in or out as necessary.

Remove the upper cowl cover (page 44) to adjust head-light aim.

Obey local laws and regulations.



(1) Knob

(A) Up

(B) Down

OPERATION

PRE-RIDE INSPECTION

⚠ WARNING

*** If the Pre-ride Inspection is not performed, severe personal injury or vehicle damage may result.**

Inspect your motorcycle every day before you ride it. The items listed here will only take a few minutes to inspect, and in the long run they can save time, expense, and possibly your life.

1. Engine oil level—add engine oil if required (page 28). Check for leaks.
2. Fuel level—fill fuel tank when necessary (page 25). Check for leaks.
3. Coolant level—add coolant if required. Check for leaks (pages 23 – 24).
4. Front and rear brakes—check operation; make sure there is no brake fluid leakage (pages 17 – 20).

5. Tyres—check condition and pressure (pages 29 – 31).
6. Drive chain—check condition and slack (page 77). Adjust and lubricate if necessary.
7. Throttle—check for smooth opening and full closing in all steering positions.
8. Lights and horn—check that headlight, tail/brake light, turn signals, indicators and horn function properly.
9. Engine stop switch—check for proper function (page 33).
10. Side stand ignition cut-off system—check for proper function (page 85).

Correct any discrepancy before you ride. Contact your authorized Honda dealer for assistance if you cannot correct the problem.

STARTING THE ENGINE

Always follow the proper starting procedure described below.

This motorcycle is equipped with a side stand ignition cut-off system. The engine cannot be started if the side stand is down, unless the transmission is in neutral. If the side stand is up, the engine can be started in neutral or in gear with the clutch lever pulled in. After starting with the side stand down, the engine will shut off if the transmission is put in gear before raising the side stand.

▲WARNING

- **Never run the engine in an enclosed area. The exhaust contains poisonous carbon monoxide gas that can cause loss of consciousness and lead to death.**

NOTE:

- Do not use the electric starter for more than 5 seconds at a time. Release the starter button for approximately 10 seconds before pressing it again.

Preparation

Before starting, insert the key, turn the ignition switch ON and confirm the following:

- The transmission is in NEUTRAL (neutral indicator light ON).
- The engine stop switch is at  (RUN).
- The red low oil pressure indicator is ON.

Starting Procedure

To restart a warm engine, follow the procedure for "High Air Temperature."

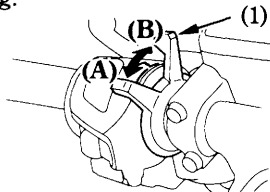
Normal Air Temperature

10° – 35°C (50° – 95°F)

1. Pull the choke lever (1) back all the way to Fully ON (A), if the engine is cold.
2. Start the engine, leaving the throttle closed.

NOTE:

- * Do not open the throttle when starting the engine with the choke ON. This will lean the mixture, resulting in hard starting.



(1) Choke lever

(A) Fully ON

(B) Fully OFF

3. Immediately after the engine starts, operate the choke lever (1) to keep fast idle at:

2,500 – 3,000 min⁻¹ (rpm)

4. About a quarter minute after the engine starts, push the choke lever (1) forward all the way to Fully OFF (B).
5. If idling is unstable, open the throttle slightly.

CAUTION:

- * **The red low oil pressure indicator should go off a few seconds after the engine starts. If the light stays on, stop the engine immediately and check engine oil level. Operating the engine with insufficient oil pressure can cause serious engine damage.**

NOTE: <SW, AR, II G only>

- * The radiator fan will start rotating when the engine speed reaches 2,000 rpm about 10 seconds after the engine has been started. This is to increase cooling efficiency and is normal.

High Air Temperature

35 °C (95 °F) or above

1. Do not use the choke.
2. Open the throttle slightly.
3. Start the engine.

Low Air Temperature

10°C (50°F) or below

1. Follow steps 1 – 2 under “Normal Air Temperature.”
2. When engine speed begins to pick up, operate the choke lever to keep fast idle at:
2,500 – 3,000 min⁻¹ (rpm)
3. Continue warming up the engine until it runs smoothly and responds to the throttle when the choke lever (1) is at Fully OFF (B).

CAUTION:

- * **Snapping the throttle or fast idling for more than about 5 minutes at normal air temperature may cause exhaust pipe discoloration.**
- * **Extended use of the choke may impair piston and cylinder wall lubrication and damage the engine.**

NOTE: < SW, AR, II G only >

- * The radiator fan will start rotating when the engine speed reaches 2,000 rpm about 10 seconds after the engine has been started. This is to increase cooling efficiency and is normal.

Flooded Engine

If the engine fails to start after repeated attempts, it may be flooded with excess fuel. To clear a flooded engine, leave the engine stop switch on  (RUN) and push the choke lever forward to Fully OFF (B). Open the throttle fully and crank the engine for 5 seconds. If the engine starts, quickly close the throttle, then open it slightly if idling is unstable. If the engine does not start, wait 10 seconds, then follow the Starting Procedure.

RUNNING-IN

Help assure your motorcycle's future reliability and performance by paying extra attention to how you ride during the first 500 km (300 miles).

During this period, avoid full-throttle starts and rapid acceleration.

RIDING

⚠ WARNING

- **Review Motorcycle Safety (pages 1 – 5) before you ride.**

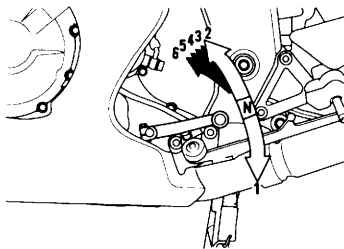
NOTE:

- Make sure you understand the function of the side stand mechanism. (See MAINTENANCE SCHEDULE on page 60 and explanation for SIDE STAND on page 85)
1. After the engine has been warmed up, the motorcycle is ready for riding.
 2. While the engine is idling, pull in the clutch lever and depress the gearshift pedal to shift into 1st (low) gear.
 3. Slowly release the clutch lever and at the same time gradually increase engine speed by opening the throttle. Coordination of the throttle and clutch lever will assure a smooth positive start.

4. When the motorcycle attains a moderate speed, close the throttle, pull in the clutch lever and shift to 2nd gear by raising the gearshift pedal.

This sequence is repeated to progressively shift to 3rd, 4th, 5th and 6th(top) gear.

5. Coordinate the throttle and brakes for smooth deceleration.
6. Both front and rear brakes should be used at the same time and should not be applied strongly enough to lock the wheel, or braking effectiveness will be reduced and control of the motorcycle be difficult.



BRAKING

This motorcycle is equipped with a Dual Combined Brake System. Operating the front brake lever applies the front brake and a portion of the rear brake. Operating the rear brake pedal applies the rear brake and a portion of the front brake. For full braking effectiveness, use both the lever and pedal simultaneously, as you would with a conventional motorcycle braking system.

As with a conventional motorcycle braking system, excessively hard application of the brake controls may cause wheel lock, reducing control of the motorcycle.

For normal braking, apply both the brake lever and brake pedal while downshifting to match your road speed. For maximum braking, close the throttle and firmly apply the lever and pedal. Pull in the clutch lever before coming to a complete stop to prevent stalling the engine.

Important Safety Reminders:

- * When possible, reduce speed or brake before entering a turn; closing the throttle or braking in mid-turn may cause wheel slip. Wheel slip will reduce control of the motorcycle.**
- * When riding in wet or rainy conditions, or on loose surfaces, the ability to maneuver and stop will be reduced. All of your actions should be smooth under these conditions. Rapid acceleration, braking or turning may cause loss of control. For your safety, exercise extreme caution when braking, accelerating or turning.**

- * When descending a long, steep grade, use engine compression braking by downshifting, with intermittent use of both brakes. Continuous brake application can overheat the brakes and reduce their effectiveness.**
- * Riding with your foot resting on the brake pedal or your hands on the brake lever may actuate the brakelight, giving a false indication to other drivers. It may also overheat the brake, reducing effectiveness.**

PARKING

1. After stopping the motorcycle, shift the transmission into neutral, turn the handlebar fully to the left, turn the ignition switch OFF and remove the key.
2. Use the side or center stand to support the motorcycle while parked.

CAUTION:

- * **Park the motorcycle on firm, level ground to prevent it from falling over.**
 - * **If you must park on a slight incline, aim the front of the motorcycle uphill to reduce the possibility of rolling off the side stand or overturning.**
3. Lock the steering to help prevent theft (page 36).

ANTI-THEFT TIPS

1. Always lock the steering and never leave the key in the ignition switch. This sounds simple but people do forget.
2. Be sure the registration information for your motorcycle is accurate and current.
3. Park your motorcycle in a locked garage whenever possible.
4. Use an additional anti-theft device of good quality.
5. Put your name, address, and phone number in this Owner's Manual and keep it on your motorcycles at all times.

Many times stolen motorcycles are identified by information in the Owner's Manuals that are still with them.

NAME: _____

ADDRESS: _____

PHONE NO: _____

MAINTENANCE

- The Required Maintenance Schedule specifies how often you should have your motorcycle served, and what things need attention. It is essential that your motorcycle be served as scheduled to retain its high level of safety, dependability, and emission control performance.
- These instructions are based on the assumption that the motorcycle will be used exclusively for its designed purpose. Sustained high speed operation, or operation in unusually wet or dusty conditions, will require more frequent service than specified in the MAINTENANCE SCHEDULE. Consult your authorized Honda dealer for recommendations applicable to your individual needs and use.

MAINTENANCE SCHEDULE

The following Maintenance Schedule specifies all maintenance required to keep your motorcycle in peak operating condition. Maintenance work should be performed in accordance with standards and specifications of Honda by properly trained and equipped technicians. Your authorized Honda dealer meets all of these requirements.

Perform the Pre-ride Inspection (page 48) at each scheduled maintenance period.

I: INSPECT AND CLEAN, ADJUST, LUBRICATE OR REPLACE IF NECESSARY

C: CLEAN R: REPLACE A: ADJUST L: LUBRICATE

ITEM \ FREQUENCY		WHICHEVER →	ODOMETER READING [NOTE(1)]									REFER TO PAGE
			COMES FIRST ↓	x 1,000 km	1	6	12	18	24	30	36	
		NOTE	x 1,000 mi	0.6	4	8	12	16	20	24		
		MONTH		6	12	18	24	30	36			
*	FUEL LINE					I		I		I	—	
*	THROTTLE OPERATION					I		I		I	75	
*	CARBURETOR CHOKE					I		I		I	—	
*	AIR CLEANER	(NOTE 2)					R			R	—	
	SPARK PLUG		EVERY 12,000km I, EVERY 24,000km R								71—74	
*	VALVE CLEARANCE							I			—	
	ENGINE OIL			R		R		R		R	67—70	
	ENGINE OIL FILTER			R		R		R		R	68—70	
*	CARBURETOR SYNCHRONIZATION					I		I		I	—	
*	ENGINE IDLE SPEED			I	I	I	I	I	I	I	76	
*	RADIATOR COOLANT	(NOTE 3)				I		I		R	23—24	
*	COOLING SYSTEM					I		I		I	—	
*	SECONDARY AIR SUPPLY SYSTEM	(NOTE 4)				I		I		I	—	

FREQUENCY ITEM		WHICHEVER →	ODOMETER READING [NOTE(1)]									REFER TO PAGE
			COMES FIRST ↓	x 1,000 km	1	6	12	18	24	30	36	
		x 1,000 mi		0.6	4	8	12	16	20	24		
		NOTE	MONTH		6	12	18	24	30	36		
	DRIVE CHAIN		I, L, EVERY 1,000 km (600 mi)									77–82
	DRIVE CHAIN SLIDER				I		I		I	83		
	BRAKE FLUID	(NOTE 3)			I	I	R	I	I	R	17–20	
	BRAKE PAD WEAR				I	I	I	I	I	I	94	
	BRAKE SYSTEM			I		I		I		I	17–20, 96	
*	BRAKE LIGHT SWITCH					I		I		I	102	
*	HEADLIGHT AIM					I		I		I	—	
	CLUTCH SYSTEM					I		I		I	21	
	CLUTCH FLUID	(NOTE 3)			I	I	R	I	I	R	21	
	SIDE STAND					I		I		I	85	
*	SUSPENSION					I		I		I	84	
*	NUTS, BOLTS, FASTENERS			I		I		I		I	—	
**	WHEELS/TYRES					I		I		I	—	
**	STEERING HEAD BEARINGS			I		I		I		I	—	

- * SHOULD BE SERVICED BY YOUR AUTHORIZED HONDA DEALER, UNLESS THE OWNER HAS PROPER TOOLS AND SERVICE DATA AND IS MECHANICALLY QUALIFIED. REFER TO THE OFFICIAL HONDA SHOP MANUAL.
- ** IN THE INTEREST OF SAFETY, WE RECOMMEND THESE ITEMS BE SERVICED ONLY BY YOUR AUTHORIZED HONDA DEALER.

Honda recommends that your authorized Honda dealer should road test your motorcycle after each periodic maintenance is carried out.

NOTES: (1) At higher odometer readings, repeat at the frequency interval established here.

(2) Service more frequently when riding in unusually wet or dusty areas.

(3) Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.

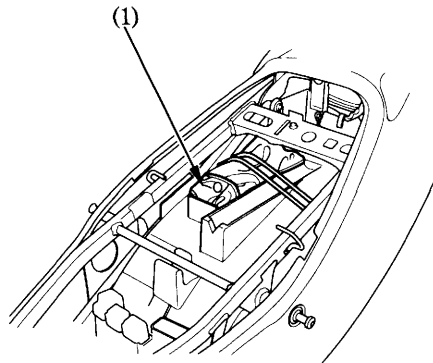
(4) Switzerland, Germany (Type II) and Austria type only.

TOOL KIT

The tool kit (1) is in the tool box under the seat.

Some roadside repairs, minor adjustments and parts replacement can be performed with the tools contained in the kit.

- Spark plug wrench
- 10x12 mm box end wrench
- 22 mm box end wrench
- 27 mm box end wrench
- 8 x 12 mm open end wrench
- 10 x 14 mm open end wrench
- Pliers
- 5 mm hex wrench
- 6 mm hex wrench
- Screwdriver grip
- Tool bag
- Breaker bar
- Feeler gauge 0.7mm
- Standard / Philips screwdriver

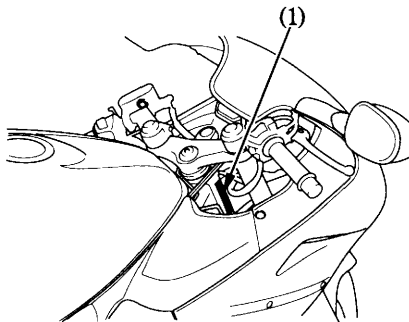


(1) Tool kit

SERIAL NUMBERS

The frame and engine serial numbers are required when registering your motorcycle. They may also be required by your dealer when ordering replacement parts. Record the numbers here for your reference.

FRAME NO. _____

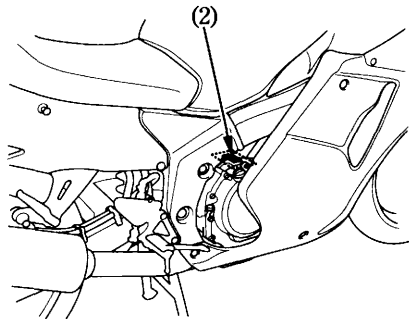


(1) Frame number

The frame number (1) is stamped on the right side of the steering head.

The engine number (2) is stamped on top of the crankcase.

ENGINE NO. _____



(2) Engine number

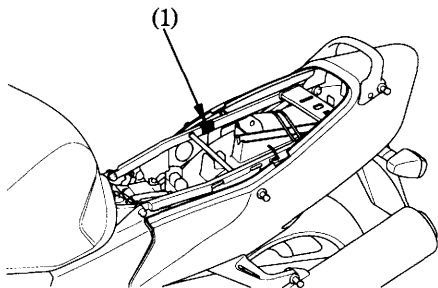
COLOUR LABEL

The colour label (1) is attached to the frame below the seat (See page 38).

It is helpful when ordering replacement parts. Record the colour and code here for your reference.

COLOUR _____

CODE _____



(1) Colour label

MAINTENANCE PRECAUTIONS

⚠ WARNING

- * If your motorcycle is overturned or involved in a collision, inspect control levers, cables, brake hoses, calipers, accessories, and other vital parts for damage. Do not ride the motorcycle if damage impairs safe operation. Have your authorized Honda dealer inspect the major components, including frame, suspension and steering parts, for misalignment and damage that you may not be able to detect.**
- * Stop the engine and support the motorcycle securely on a firm, level surface before performing any maintenance.**
- * Use new, genuine Honda parts or their equivalent for maintenance and repair. Parts which are not of equivalent quality may impair the safety of your motorcycle.**

ENGINE OIL

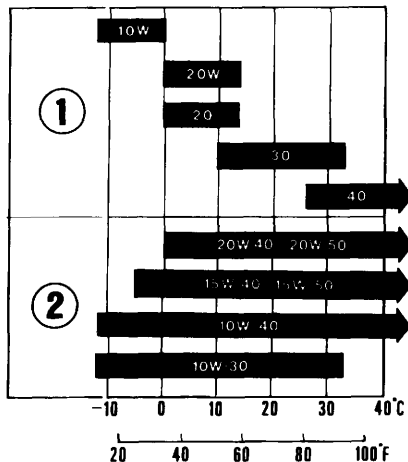
(Refer to the maintenance precautions on page 66).

Engine Oil

Good engine oil has many desirable qualities. Use only high detergent, quality motor oil certified on the container to meet or exceed requirements for API Service Classification SE, SF or SG.

Viscosity:

Viscosity grade of engine oil should be based on average atmospheric temperature in your riding area. The following provides a guide to the selection of the proper grade or viscosity of oil to be used at various atmospheric temperatures.



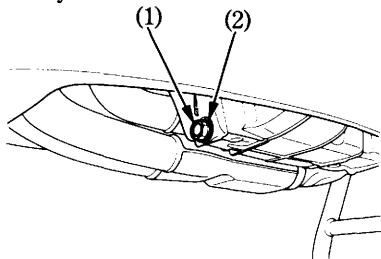
(1) Single grade

(2) Multi grade

Engine Oil and Filter

Engine oil quality is the chief factor affecting engine service life. Change the engine oil as specified in the maintenance schedule (page 60).

Changing the oil filter requires a special oil filter tool and a torque wrench. If you do not have these tools and the necessary skill, we recommend that you have your authorized Honda dealer perform this service. If a torque wrench is not used for this installation, see your authorized Honda dealer as soon as possible to verify proper assembly.



(1) Oil drain plug

(2) Sealing washer

NOTE:

- Change the engine oil with the engine at normal operating temperature and the motorcycle on its center stand to assure complete and rapid draining.

CAUTION:

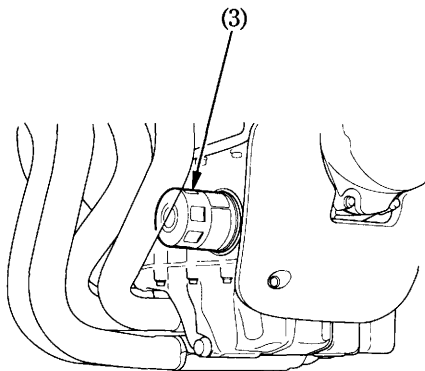
- **To prevent oil leaks and filter damage, never support the engine on the oil filter.**

1. Remove the lower cowl (page 42).
2. To drain the oil, remove the oil filler cap and oil drain plug (1) and sealing washer (2).

▲WARNING

- **A warmed-up engine and the oil in it are hot; be careful not to burn yourself.**

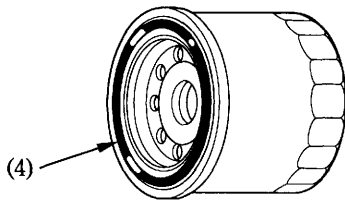
3. Remove the oil filter (3) with a filter wrench and let the remaining oil drain out.



(3) Oil filter

4. Apply a thin coat of engine oil to the new oil filter rubber seal (4).
5. Using a special tool and a torque wrench, install the new oil filter and tighten to a torque of:

10 N·m (1.0 kgf·m , 7 lbf·ft)



(4) Oil filter rubber seal

6. Use only the Honda genuine oil filter or a filter of equivalent quality specified for your model. Using the wrong Honda filter or a non-Honda filter which is not of equivalent quality may cause engine damage.
7. Check that the sealing washer on the drain plug is in good condition and install the plug. Replace the sealing washer every other time the oil is changed, or each time if necessary.
Oil Drain Plug Torque:
29 N·m (3.0 kgf·m , 22 lbf·ft)
8. Fill the crankcase with the recommended grade oil; approximately:
3.9 ℓ (4.1 US qt , 3.4 Imp qt)
9. Install the oil filler cap.
10. Install the lower cowl.
11. Start the engine and let it idle for 2–3 minutes.
12. Several minutes after stopping the engine, check that the oil level is at the upper level mark on the dipstick with the motorcycle on its center stand, level ground. Make sure there are no oil leaks.

NOTE:

- When running in very dusty conditions, oil changes should be performed more frequently than specified in the maintenance schedule.
- Please dispose of used engine oil in a manner that is compatible with the environment. We suggest you take it in a sealed container to your local recycling center or service station for reclamation. Do not throw it in the rubbish or pour it on the ground or down a drain.

CAUTION:

- **Used engine oil may cause skin cancer if repeatedly left in contact with the skin for prolonged periods. Although this is unlikely unless you handle used oil on a daily basis, it is still advisable to thoroughly wash your hands with soap and water as soon as possible after handling used oil.**

SPARK PLUGS

(Refer to the maintenance precautions on page 66).

Recommended plugs:

CR9EHVX-9 (NGK)

This motorcycle uses the spark plugs that have a platinum coated center electrode. Be sure to observe the following when servicing the spark plugs.

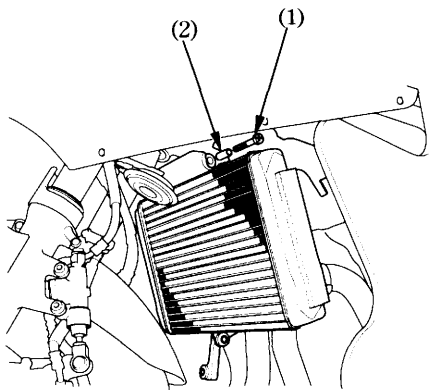
- Do not use wire brush to clean the electrodes. If the electrode is contaminated with accumulated objects or dirt, clean the electrode using a “plug cleaner”.

Consult your authorized Honda dealer for this service.

- Use only “wire-type feeler gauge” to check the spark plug gap to prevent damaging the platinum coating of the center electrodes. Never use “leaf-type feeler gauge”.
- Do not adjust the spark plug gap. If the gap is out of specification, replace the spark plug with a new one.

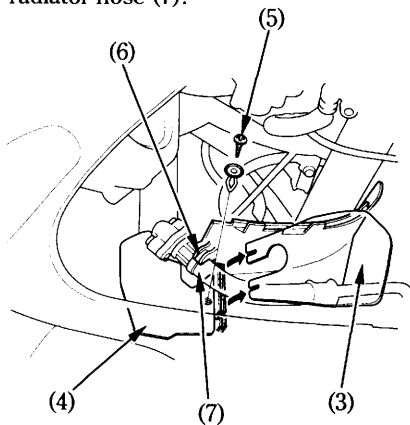
1. Remove the lower cowl (page 42).
2. Remove the upper cowl cover (page 44) and inner panel (page 45).

3. Remove the radiator mount bolt (1) and collar (2).



(1) Radiator mount bolt (2) Collar

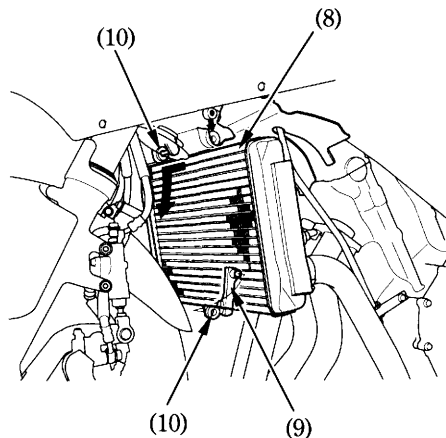
4. Remove the plate A (3).
5. Remove the plate B (4) by removing the screw (5).
6. Remove the heat guard (6) from the radiator hose (7).



(3) Plate A
(4) Plate B
(5) Screw

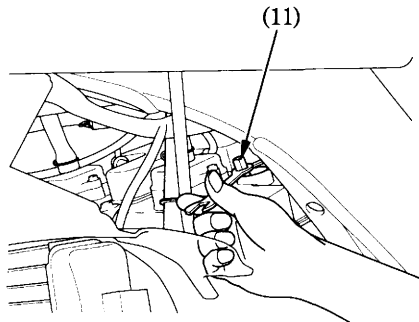
(6) Heat guard
(7) Radiator hose

7. Move the radiator (8) out of the way and remove the grommet (10) from the radiator stay (9).
8. Pull the radiator toward the front.



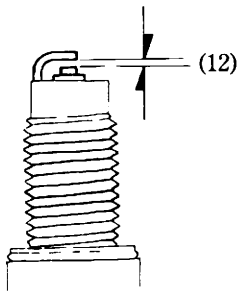
(8) Radiator
(9) Radiator stay
(10) Grommet

9. Disconnect the spark plug caps from the spark plugs.
10. Clean any dirt from around the spark plug bases. Remove the spark plugs using the plug wrench (11) furnished in the tool kit.
11. Inspect the electrodes and center porcelain for deposits, erosion or carbon fouling. If the erosion or deposit is heavy, replace the plug. Clean a carbon or wet-fouled plug with a plug cleaner.



(11) Spark plug wrench

12. Make sure that the 1.0 mm wire-type feeler gauge does not insert between the spark plug gap (12). If the gauge is inserted into the gap, replace the plug with a new one.
13. Make sure the plug washer is in good condition.



(12) Spark plug gap

14. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
15. Tighten a new spark plug 1/2 turn with a spark plug wrench to compress the washer. If you are reusing a plug, it should only take 1/8–1/4 turn after the plug seats.
16. Reinstall the spark plug caps.
17. Install the remaining parts in the reverse order of removal.

CAUTION:

- * **The spark plug must be securely tightened. An improperly tightened plug can become very hot and possibly damage the engine.**
- * **Never use a spark plug with an improper heat range. Severe engine damage could result.**

THROTTLE OPERATION

(Refer to the maintenance precautions on page 66).

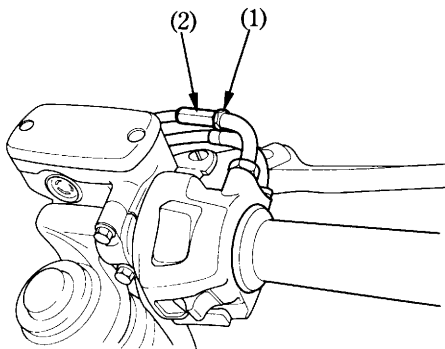
1. Check for smooth rotation of the throttle grip from the fully open to the fully closed position at both full steering positions.

2. Measure the throttle grip free play at the throttle grip flange.

The standard free play should be approx:

2–6 mm (0.08–0.24 in)

To adjust the free play, loosen the lock nut (1) and turn the adjuster (2).



(1) Lock nut

(2) Adjuster

IDLE SPEED

(Refer to the maintenance precautions on page 66).

The idle speed adjustment procedure given here should only be used when changes in altitude affect normal idle speed as set by your dealer. See your authorized Honda dealer for regularly scheduled carburetor adjustments, including individual carburetor adjustment and synchronization.

NOTE:

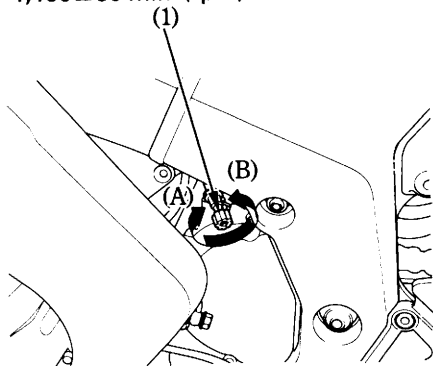
- The engine must be at normal operating temperature for accurate idle speed adjustment. Ten minutes of stop-and-go riding is sufficient.
1. Warm up the engine, and shift to neutral, and place the motorcycle on its centerstand.
 2. Adjust idle speed with the throttle stop screw (1).

Idle Speed: (In neutral)

1,000 ± 100 min⁻¹(rpm) ... E, F, ED, ND, U, SD
BR

1,100 ± 100 min⁻¹(rpm) ...AR, II G

1,100 ± 50 min⁻¹(rpm) ...SW



(1) Throttle stop screw

(A) Increase
(B) Decrease

DRIVE CHAIN

(Refer to the maintenance precautions on page 66).

The service life of the drive chain is dependent upon proper lubrication and adjustment. Poor maintenance can cause premature wear or damage to the drive chain and sprockets.

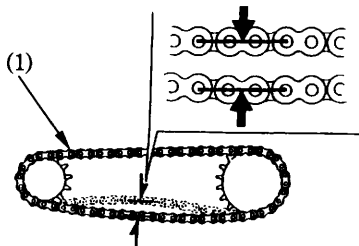
The drive chain should be checked and lubricated as part of the Pre-ride Inspection (page 48). Under severe usage, or when the motorcycle is ridden in unusually dusty or muddy areas, more frequent maintenance will be necessary.

Inspection :

1. Turn the engine off, place the motorcycle on its center stand, and shift the transmission into neutral.
2. Check slack in the lower drive chain run midway between the sprockets.
Drive chain slack should be adjusted to allow the following vertical movement by hand:

25 – 35 mm (1.0 – 1.4 in)

3. Rotate the rear wheel. Stop. Check the drive chain slack. Repeat this procedure several times. Drive chain slack should remain constant. If the chain is slack only in certain sections, some links are kinked and binding. Binding and kinking can frequently be eliminated by lubrication.



(1) Drive chain

4. Rotate the rear wheel slowly and inspect the drive chain and sprockets for any of the following conditions:

DRIVE CHAIN

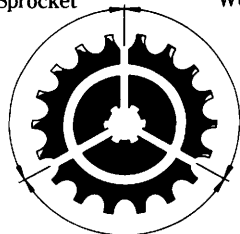
- *Damaged Rollers
- *Loose Pins
- *Dry or Rusted Links
- *Kinked or Binding Links
- *Excessive Wear
- *Improper Adjustment
- *Damaged or Missing O-rings

SPROCKETS

- *Excessively Worn Teeth
- *Broken or Damaged Teeth

A drive chain with damaged rollers, loose pins, or missing O-rings must be replaced. A chain which appears dry, or shows signs of rust, requires supplementary lubrication. Kinked or binding links should be thoroughly lubricated and worked free. If links cannot be freed, the chain must be replaced.

Damaged Sprocket
Teeth
REPLACE

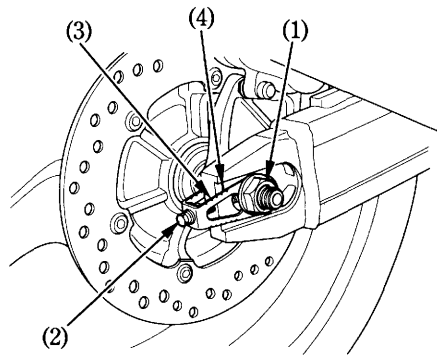


Worn Sprocket
Teeth
REPLACE

Normal Sprocket Teeth
GOOD

Adjustment:

Drive chain slack should be checked and adjusted, if necessary, every 1,000 km (600 miles). When operated at sustained high speeds or under conditions of frequent rapid acceleration, the chain may require more frequent adjustment.



- | | |
|--------------------|-----------------|
| (1) Axle nut | (3) Index marks |
| (2) Adjusting bolt | (4) Index mark |

If the drive chain requires adjustment, the procedure is as follows:

1. Place the motorcycle on its center stand with the transmission in neutral and the ignition switch off.
2. Loosen the axle nut (1).
3. Turn both adjusting bolts (2) an equal number of turns until the correct drive chain slack is obtained. Turn the adjusting bolts counterclockwise to tighten the chain, or clockwise to provide more slack. Adjust the chain slack at a point midway between the drive sprocket and the rear wheel sprocket. Rotate the rear wheel and recheck slack at other sections of the chain.

Chain slack should be:

25—35 mm (1.0—1.4 in)

4. Check rear axle alignment by making sure the chain adjuster index marks (3) align with the index mark (4) on the swingarm.

Both left and right marks should correspond. If the axle is misaligned, turn the left or right adjusting nut until the marks correspond on the rear edge of the adjusting slots and recheck chain slack.

5. Tighten the axle nut to specified torque.
Axle nut torque:

93 N·m (9.5 kgf·m , 69 lbf·ft)

6. Tighten the adjusting bolts lightly.

⚠ WARNING

- * If a torque wrench was not used for installation, see your authorized Honda dealer as soon as possible to verify proper assembly.**

CAUTION:

- * Damage to the bottom part of the frame may be caused by excessive drive chain slack of more than:
50 mm (1.97 in)**

Wear inspection:

Check the chain wear label when adjusting the chain. If the red zone (6) on the label aligns with the index mark (5) on the swingarm after the chain has been adjusted to the proper slack, the chain is excessively worn and must be replaced. The proper slack is:

25–35 mm (1.0–1.4 in)

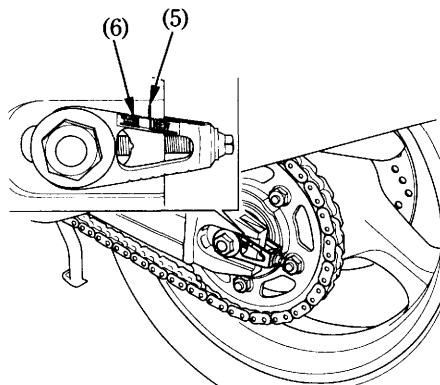
Replacement chain:

D.I.D.50ZVS

or

RK50LFO–Z1

This motorcycle has a staked master link drive chain which requires a special tool for cutting and staking. Do not use an ordinary master link with this chain. See your authorized Honda dealer.



(5) Index mark

(6) Red zone

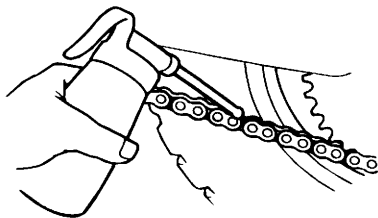
Lubrication and cleaning:

Lubricate every 1,000 km (600 miles) or sooner if chain appears dry.

The O-rings in this chain can be damaged by steam cleaning, high pressure washers, and certain solvents. Clean the side surfaces of the chain with a dry cloth. Do not brush the rubber O-rings. Brushing will damage them. Wipe dry and lubricate only with SAE 80 or 90 gear oil. Commercial chain lubricants may contain solvents which could damage the rubber O-rings.

CAUTION:

- * **The drive chain on this motorcycle is equipped with small O-rings between the link plates. These O-rings retain grease inside the chain to improve its service life. However, special precautions must be taken when adjusting, lubricating, washing, and replacing the chain.**

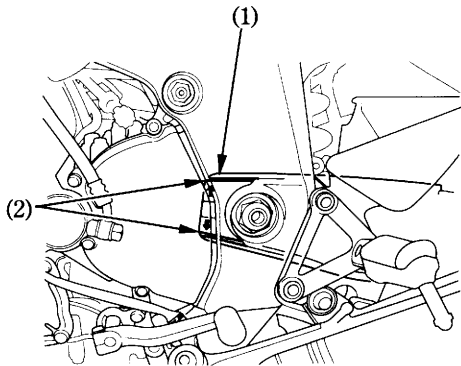


DRIVE CHAIN SLIDER

(Refer to the maintenance precautions on page 66).

Check the chain slider (1) for wear.

The chain slider must be replaced if it is worn to the wear limit line (2). For replacement, see your authorized Honda dealer.



- (1) Chain slider
- (2) Wear limit line

FRONT AND REAR SUSPENSION INSPECTION

(Refer to the maintenance precautions on page 66).

1. Check the fork assembly by locking the front brake and pumping the fork up and down vigorously. Suspension action should be smooth and there must be no oil leakage.
2. Swingarm bearings should be checked by pushing hard against the side of the rear wheel while the motorcycle is on the center stand. Free play indicates worn bearings.
3. Carefully inspect all front and rear suspension fasteners for tightness.

SIDE STAND

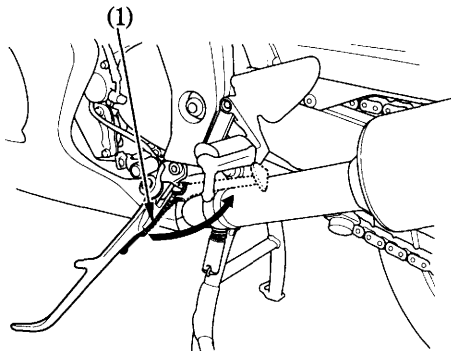
(Refer to the maintenance precautions on page 66).

Perform the following maintenance in accordance with the maintenance schedule.

Functional Check:

- Check the spring (1) for damage or loss of tension and the side stand assembly for freedom of movement.
- Check the side stand ignition cut-off system:
 1. Sit astride the motorcycle; put the side stand up and the transmission in neutral.
 2. Start the engine and with the clutch lever pulled in, shift the transmission into gear.
 3. Lower the side stand. The engine should stop as you put the side stand down.

If the side stand system does not operate as described, see your authorized Honda dealer for service.



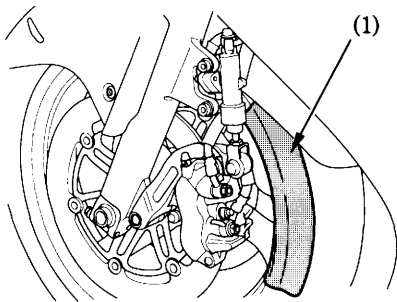
(1) Side stand spring

WHEEL REMOVAL

(Refer to the maintenance precautions on page 66).

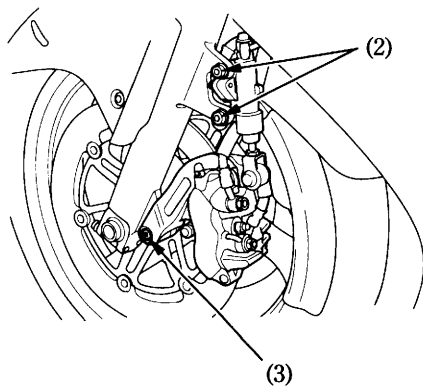
Front Wheel Removal

1. Raise the front wheel off the ground by placing a support block under the engine.
2. Cover both sides of the front wheel with a protective tape (1) or equivalent.



(1) Protective tape

3. Remove the two A socket bolts (2) and the B socket bolt (3).



(2) Socket bolts A

(3) Socket bolt B

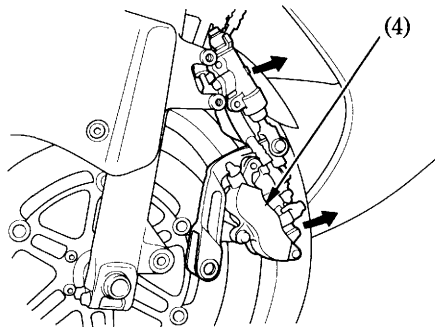
4. Remove the left caliper assembly (4).
5. Remove the right caliper assembly (5) from the fork leg by removing the fixing bolts (6).

CAUTION:

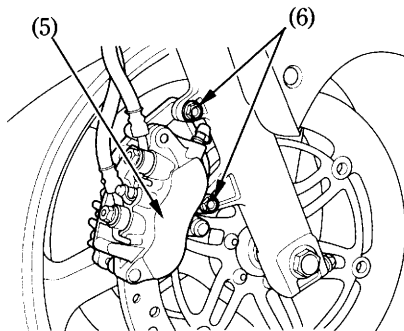
- To avoid damage to the brake hose, support the caliper assembly so that it doesn't hang from the hose. Do not twist the brake hose.

NOTE:

- Do not depress the brake lever and brake pedal when the wheel is off the motorcycle. The caliper piston will be forced out of the cylinder with subsequent loss of brake fluid. If this occurs, servicing of the brake system will be necessary. See your authorized Honda dealer for this service.



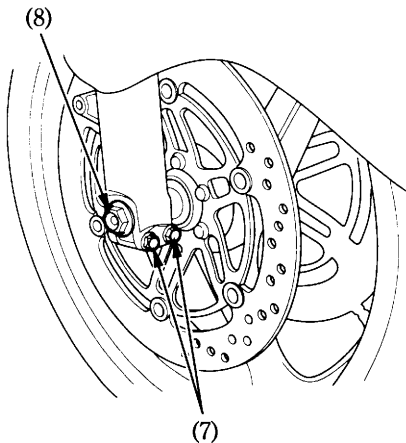
(4) Left caliper assembly



(5) Right caliper assembly

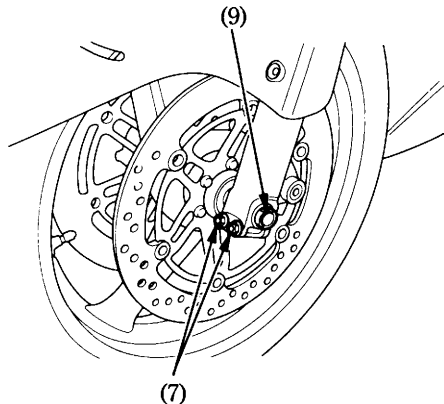
(6) Fixing bolts

6. Loosen the right and left axle pinch bolts (7), and remove the axle bolt (8).
7. Withdraw the front axle (9) and remove the front wheel.



(7) Axle pinch bolts

(8) Axle bolt



(9) Front axle

Installation Notes:

Position the front wheel between the fork legs and insert the front axle from the left side, through the left fork leg and wheel hub.

CAUTION:

- * When installing the wheel, carefully fit the left brake disc between the brake pads to avoid damaging the pads.**

Tighten the axle bolt to the specified torque.

Axle bolt torque :

59 N·m (6.0 kgf·m , 43 lbf·ft)

Fit the caliper over the disc, taking care not to damage the brake pads. Install the caliper fixing bolts and tighten to a torque of:

31 N·m (3.2 kgf·m , 23 lbf·ft)

Socket bolts (2), (3) torque:

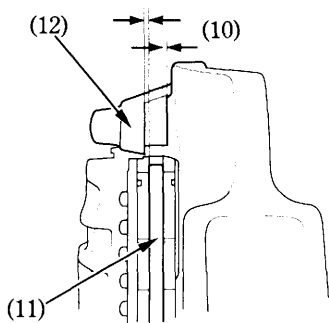
31 N·m (3.2 kgf·m , 23 lbf·ft)

Measure the clearance (10) between each surface of the brake disc (11) and the caliper holder (12) with a 0.7 mm (0.028 in) feeler gauge (13) (see illustration).

If the gauge inserts easily, tighten the right and left axle pinch bolts (7) to the specified torque.

Axle pinch bolt torque :

22 N·m (2.2 kgf·m , 16 lbf·ft)



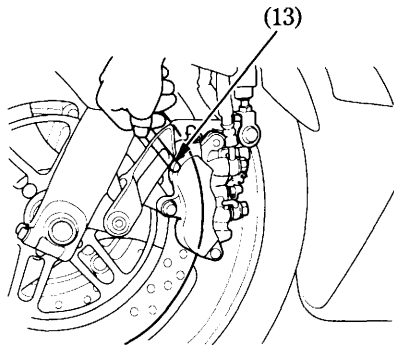
(10) Clearance

(11) Brake disc

(12) Caliper holder

⚠ WARNING

*** If a torque wrench was not used for installation, see your authorized Honda dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.**



(13) Feeler gauge

If the feeler gauge cannot be inserted easily, pull the fork outward or push inward until the gauge can be inserted and tighten the axle pinch bolts with the gauge inserted. After tightening, remove the gauge. After installing the wheel, apply the brakes several times, then recheck both discs for caliper holder to disc clearance. Do not operate the motorcycle without adequate clearance.

▲ WARNING

- * **Failure to provide adequate disc to caliper holder clearance may damage the brake discs and impair braking efficiency.**

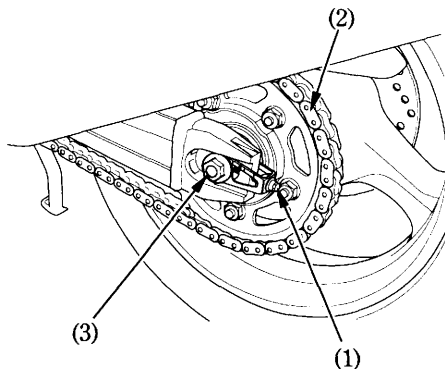
CAUTION:

- * **After installation, operate the brake lever and brake pedal and check the brake operation.**

Remove the protective tapes from the front wheel.

Rear Wheel Removal

1. Place the motorcycle on its center stand.
2. Loosen the rear axle nut (4).
3. Loosen the drive chain adjusting bolts (1).
4. Remove the rear axle nut (4).
5. Remove the drive chain (2) from the driven sprocket by pushing the rear wheel forward.



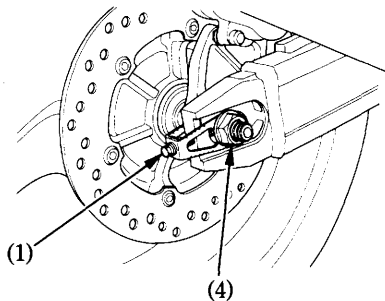
- (1) Adjusting bolt
(2) Drive chain

- (3) Axle shaft

6. Remove the axle shaft (3), side collar and rear wheel from the swing arm.

NOTE:

- Do not depress the brake pedal while the wheel is off the motorcycle. The caliper pistons will be forced out of the cylinders with subsequent loss of brake fluid. If this occurs, servicing of the brake system will be necessary. See your authorized Honda dealer for this service.



- (4) Rear axle nut

Installation Notes:

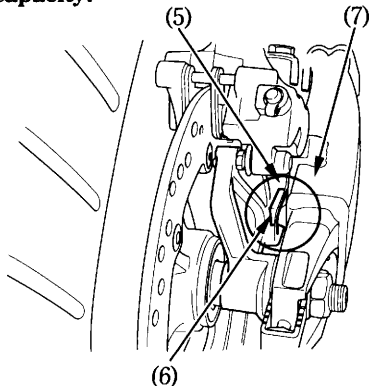
- To install the rear wheel, reverse the removal procedure.
- Make sure that the slot (5) on the brake caliper is located in the lug (6) in the swingarm (7).
- Tighten the axle nut to:
93 N·m (9.5 kgf·m , 69 lbf·ft)
- Adjust the drive chain (Page 79).
- Apply the brake several times and check for free wheel rotation after the brake pedal is released.
- Brake system inspection (See page 96).

CAUTION:

- When installing the wheel, carefully fit the brake disc between the brake pads to avoid damaging the pads.
- After installation, operate the brake pedal and check the brake operation.

⚠ WARNING

- If a torque wrench was not used for installation, see your authorized Honda dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.



(5) Slot
(6) Lug

(7) Swing arm

BRAKE PAD WEAR

(Refer to the maintenance precautions on page 66).

Brake pad wear depends upon the severity of usage, the type of riding, and road conditions. (Generally, the pads will wear faster on wet and dirty roads.)

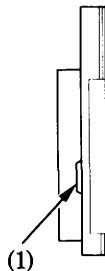
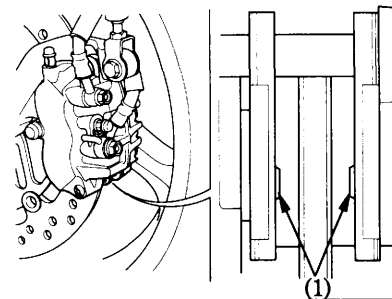
Inspect the pads at each regular maintenance interval (page 61).

Front/Rear Brake

Check the cutout (1) in each pad.

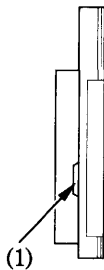
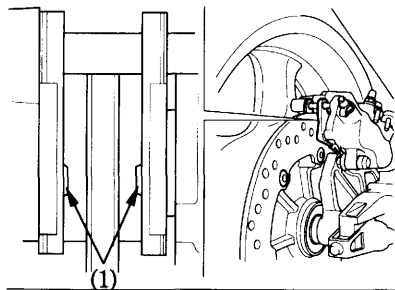
If either pad is worn to the cutout, replace both pads as a set. See your authorized Honda dealer for this service.

〈FRONT BRAKE〉



(1) Cutouts

< REAR BRAKE >



(1) Cutouts

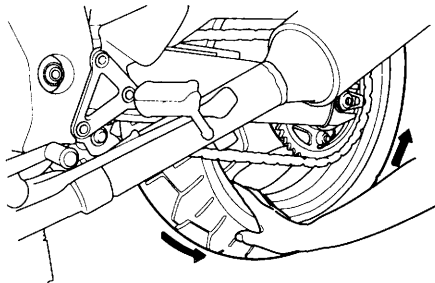
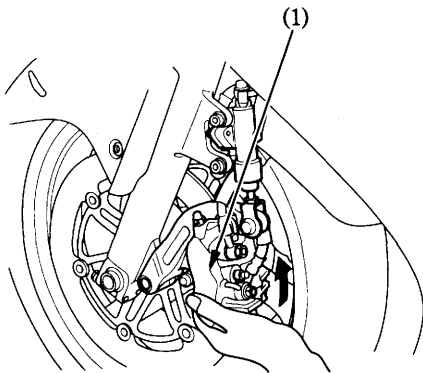
BRAKE SYSTEM INSPECTION

(Refer to the maintenance precautions on page 66).

Check the brake system as follows:

1. Place the motorcycle on its center stand, stop the engine, and place the transmission in neutral.

3. Move the left caliper assembly (1) upward while slowly rotating the rear wheel. The brake system is normal if the rear wheel stops. If the rear wheel does not stop, see your authorized Honda dealer.



(1) Left caliper assembly

BATTERY

(Refer to the maintenance precautions on page 66).

It is not necessary to check the battery electrolyte level or add distilled water as the battery is a maintenance-free (sealed) type. If your battery seems weak and/or is leaking electrolyte (causing hard starting or other electrical troubles), contact your authorized Honda dealer.

CAUTION:

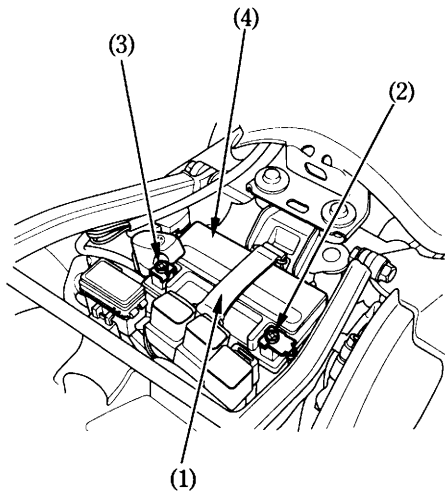
- * Removing the battery cap strip can damage the cap strip and result in leaks and eventual battery damage.
- * When the motorcycle is to be stored for an extended period of time, remove the battery from the motorcycle and charge it fully. Then store it in a cool, dry place. If the battery is to be left in the motorcycle, disconnect the negative cable from the battery terminal.

▲ WARNING

- * The battery gives off explosive gases; keep sparks, flames, and cigarettes away. Provide adequate ventilation when charging or using the battery in an enclosed space.
- * The battery contains sulfuric acid (electrolyte). Contact with skin or eyes may cause severe burns. Wear protective clothing and a face shield.
 - If electrolyte gets on your skin, flush with water.
 - If electrolyte gets in your eyes, flush with water for at least 15 minutes and call a physician immediately.
- * Electrolyte is poisonous.
 - If swallowed, drink large quantities of water or milk and follow with milk of magnesia or vegetable oil and call a physician.
- * **KEEP OUT OF REACH OF CHILDREN.**

Battery removal:

1. Remove the seat (page 38).
2. Release the rings and remove the rubber band (1).
3. Disconnect the negative (–) terminal lead (2) from the battery first, then disconnect the positive (+) terminal lead (3).
4. Pull out the battery (4) from the battery box.



- (1) Rubber band
- (2) Negative (–) terminal lead
- (3) Positive (+) terminal lead
- (4) Battery

FUSE REPLACEMENT

(Refer to the maintenance precautions on page 66).

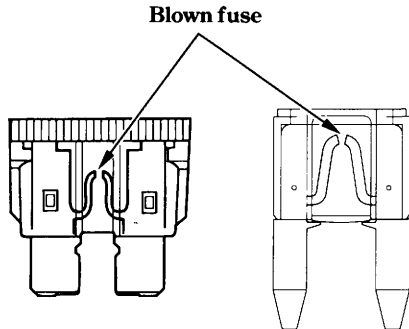
When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized Honda dealer for repair.

CAUTION:

- * Turn the ignition switch OFF before checking or replacing fuses to prevent accidental short-circuiting.

⚠ WARNING

- * Never use a fuse with a different rating from that specified. Serious damage to the electrical system or a fire may result, causing a dangerous loss of lights or engine power.



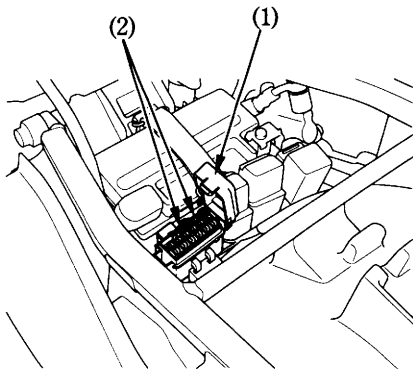
Fuse box:

The fuse box is located under the seat.

The specified fuses are:

10A and 20A

1. Remove the seat (page 38).
2. Open the fuse box cover (1).
3. Pull out the old fuse and install a new fuse.
The spare fuse (2) are located in the fuse box.
4. Close the fuse box cover and install the seat.



- (1) Fuse box cover
(2) Spare fuse

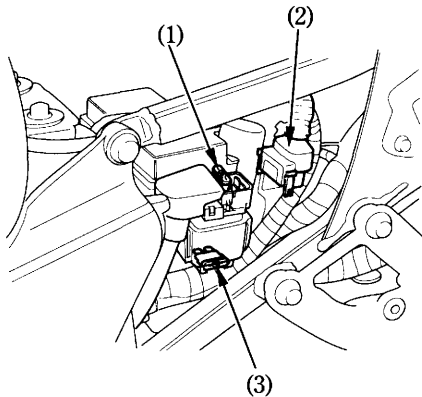
Main fuse:

The main fuse (1) is located behind the rear cowl.

The specified fuse is:

30A

1. Remove the rear cowl (page 41).
2. Disconnect the wire connector (2) of the starter magnetic switch.
3. Pull out the old fuse and install a new fuse.
The spare fuse (3) is located under the starter magnetic switch.
4. Reconnect the connector and install the rear cowl.



(1) Main fuse
(2) Wire connector

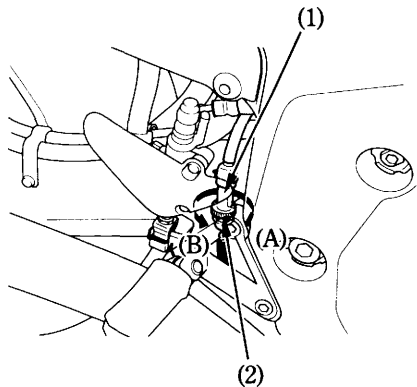
(3) Spare fuse

STOPLIGHT SWITCH ADJUSTMENT

(Refer to the maintenance precautions on page 66).

Check the operation of the stoplight switch (1) at the right side behind the engine from time to time.

Adjustment is done by turning the adjusting nut (2). Turn the nut in the direction (A) if the switch operates too late and in direction (B) if the switch operates too soon.



- (1) Stoplight switch
- (2) Adjusting nut

BULB REPLACEMENT

(Refer to the maintenance precautions on page 66).

▲ WARNING

- * **The light bulb becomes very hot while the light is ON, and remain hot for a while after it is turned OFF. Be sure to let it cool down before servicing.**

CAUTION:

- * **Do not put finger prints on the headlight bulb, as they may create hot spots on the bulb and cause it to break.**

Wear clean gloves while replacing the bulb.

If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

NOTE:

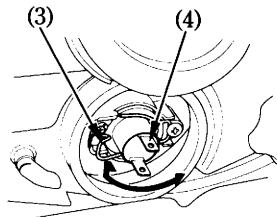
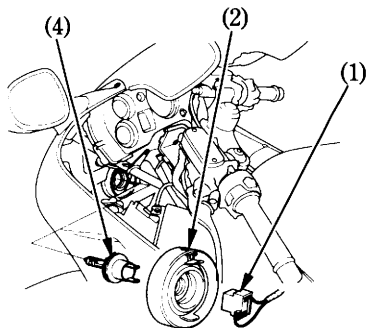
- * **Be sure to turn the ignition switch OFF when replacing the bulb.**
- * **Do not use bulbs other than that specified.**
- * **After installing a new bulb, check that the light operates properly.**

Headlight Bulb

1. Remove the upper cowl cover (page 44).
2. Pull off the socket (1) without turning.
3. Remove the dust cover (2).
4. Remove the bulb (4) while pressing down on the pin (3).
5. Pull out the bulb (4) without turning.
6. Install a new bulb in the reverse order of removal.

NOTE:

- * Install the dust cover with its "TOP" mark facing up.

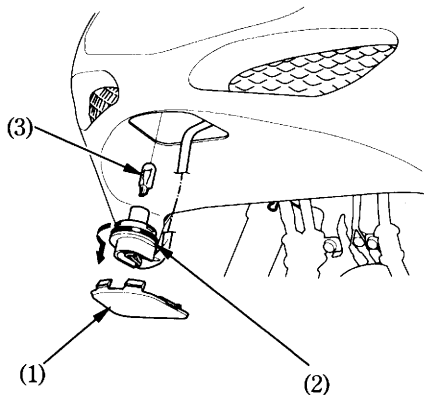


- (1) Socket
(2) Dust cover

- (3) Pin
(4) Bulb

Position Light Bulb

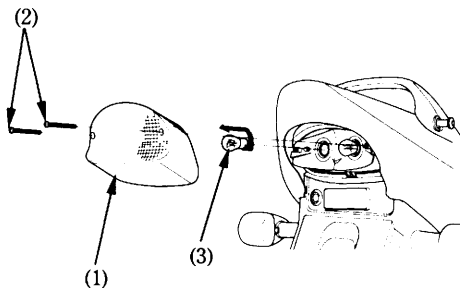
1. Remove the position light cover (1).
2. Turn the position light reflector (2) counterclockwise and remove it.
3. Pull out the bulb (3) without turning.
4. Install a new bulb in the reverse order of removal.



- (1) Position light cover
(2) Position light reflector
(3) Bulb

Stop/Taillight Bulb

1. Remove the taillight lens (1) by removing the two screws (2).
2. Slightly press the bulb (3) and turn it counterclockwise.
3. Install a new bulb in the reverse order of removal.

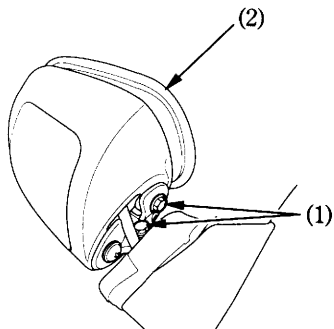


(1) Taillight lens
(2) Screws

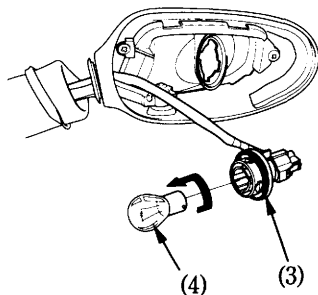
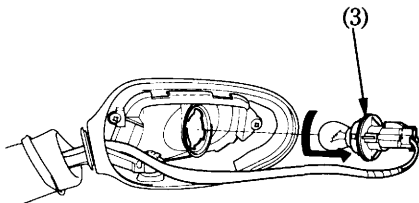
(3) Bulb

Front Turn Signal Bulb

1. Remove the two mounting bolts (1) and the rearview mirror (2).
2. Turn the socket (3) 90° counterclockwise and remove it.
3. Slightly press the bulb (4) and turn it counterclockwise.
4. Install a new bulb in the reverse order of removal.



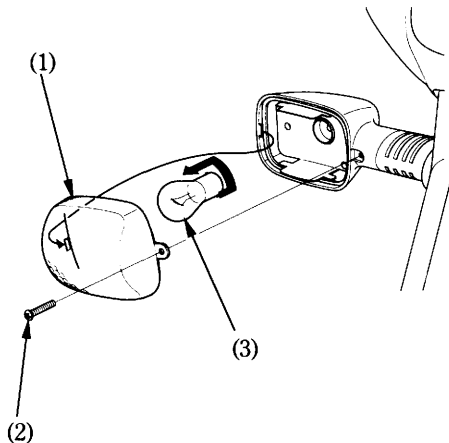
- (1) Bolts
(2) Rearview mirror



- (3) Socket
(4) Bulb

Rear Turn Signal Bulb

1. Remove the rear turn signal lens (1) by removing the screw (2).
2. Slightly press the bulb (3) and turn it counterclockwise.
3. Install a new bulb in the reverse order of removal.



(1) Lens
(2) Screw

(3) Bulb

CLEANING

Clean your motorcycle regularly to protect the surface finishes and inspect for damage, wear, and oil, coolant or brake fluid leakage.

CAUTION:

- **High pressure water (or air) can damage certain parts of the motorcycle.**

Avoid spraying high pressure water (typical in coin-operated car washes) at the following areas:

Wheel Hubs
Ignition Switch
Carburetors
Clutch Master Cylinder
Brake Master Cylinders
Instruments
Handlebar Switches
Muffler Outlets
Under Fuel Tank
Drive Chain
Under Seat

1. After cleaning, rinse the motorcycle thoroughly with plenty of clean water. Strong detergent residue can corrode alloy parts.

NOTE:

- Clean the fairing, headlight lens and other plastic parts using a cloth or sponge dampened with a solution of mild detergent and water. Rub the soiled area gently rinsing it frequently with fresh water.
- The rear grab rail is also a plastic part and can be cleaned in the same manner as described above.
- The inside of the headlight lens may be clouded immediately after washing the motorcycle. Moisture condensation inside the headlight lens will disappear gradually by lighting the headlight in high beam. Run the engine while keeping the headlight on.

2. Dry the motorcycle, start the engine, and let it run for several minutes.

▲ WARNING

- * **Braking efficiency may be temporarily impaired immediately after washing the motorcycle. Anticipate longer stopping distance to avoid a possible accident.**
3. Test the brakes before riding the motorcycle. Several applications may be necessary to restore normal braking performance.
 4. Lubricate the drive chain immediately after washing and drying the motorcycle.

Painted Aluminum Wheel Maintenance

Aluminum may corrode from contact with dirt, mud, or road salt. Clean the wheels after riding through any of these substances. Use a wet sponge and mild detergent. Avoid stiff brushes, steel wool, or cleaners containing abrasives or chemical compounds.

After washing, rinse with plenty of water and dry with a clean cloth.

Apply touch-up paint to the wheels where damage has resulted.

STORAGE GUIDE

Extended storage, such as for winter, requires that you take certain steps to reduce the effects of deterioration from non-use of the motorcycle. In addition, necessary repairs should be made **BEFORE** storing the motorcycle; otherwise, these repairs may be forgotten by the time the motorcycle is removed from storage.

STORAGE

1. Change the engine oil and filter.
2. Make sure the cooling system is filled with a 50/50% antifreeze solution.
3. Empty the fuel tank into an approved petrol container using a commercially available hand siphon or an equivalent method. Spray the inside of the tank with an aerosol rust-inhibiting oil.
Reinstall the fuel fill cap on the tank.

NOTE:

- * If storage will last more than one month, carburetor draining is very important, to assure proper performance after storage.

▲WARNING

- * **Petrol is extremely flammable and is explosive under certain conditions. Perform this operation in a well-ventilated area with the engine stopped. Do not smoke or allow flames or sparks in the area where petrol is drained or stored and where the fuel tank is refueled.**

4. To prevent rusting in the cylinders, perform the following:
 - Remove the spark plug caps from the spark plugs. Using tape or string, secure the caps to any convenient plastic body part so that they are positioned away from the spark plugs.
 - Remove the spark plugs from the engine and store them in a safe place. Do not connect the spark plugs to the spark plug caps.
 - Pour a tablespoon (15–20 cc) of clean engine oil into each cylinder and cover the spark plug holes with a piece of cloth.
 - Crank the engine several times to distribute the oil.
 - Reinstall the spark plugs and spark plug caps.
5. Remove the battery. Store in an area protected from freezing temperatures and direct sunlight.
Slow charge the battery once a month.
6. Wash and dry the motorcycle. Wax all painted surfaces. Coat chrome with rustinhibiting oil.
7. Lubricate the drive chain (page 82).
8. Inflate the tyres to their recommended pressures. Place the motorcycle on blocks to raise both tyres off the ground.
9. Cover the motorcycle (don't use plastic or other coated materials) and store in an unheated area, free of dampness with a minimum of daily temperature variation. Do not store the motorcycle in direct sunlight.

REMOVAL FROM STORAGE

1. Uncover and clean the motorcycle.
Change the engine oil if more than 4 months have passed since the start of storage.
2. Charge the battery as required. Install the battery.
3. Drain any excess aerosol rust-inhibiting oil from the fuel tank. Fill the fuel tank with fresh petrol.
4. Perform all Pre-ride Inspection checks (page 48).
Test ride the motorcycle at low speeds in a safe riding area away from traffic.

SPECIFICATIONS

DIMENSIONS

Overall length

2,220 mm (87.4 in) ...SW,AR,ND, II G
2,160 mm (85.0 in) ...E,F,ED,U,BR,SD

Overall width

720 mm (28.3 in)

Overall height

1,170 mm (46.1 in)

Wheelbase

1,490 mm (58.7 in)

WEIGHT

Dry weight

223 kg (492 lbs) ...Except II G
224 kg (494 lbs) ... II G only

CAPACITIES

Engine oil After draining
 After draining and
 oil filter change
 After disassembly

3.8 ℓ (4.0 US qt , 3.3 Imp qt)

Fuel tank
Fuel reserve
Cooling system capacity
Passenger capacity
Maximum weight capacity

3.9 ℓ (4.1 US qt , 3.4 Imp qt)
4.6 ℓ (4.9 US qt , 4.0 Imp qt)
22.0 ℓ (5.81 US gal , 4.84 Imp gal)
5.8 ℓ (1.53 US gal , 1.28 Imp gal)
3.2 ℓ (0.85 US gal , 0.70 Imp gal)
Operator and one passenger
188 kg (415 lbs)

ENGINE

Bore and stroke

79.0 × 58.0 mm (3.11 × 2.28 in)

Compression ratio

11.0 : 1

Displacement

1,137 cm³ (69.4 cu-in)

Spark plug

CR9EHVX-9 (NGK)

Idle speed

1,000 ± 100 min⁻¹(rpm) ...E,F,ED,ND,U,BR,SD

1,100 ± 100 min⁻¹(rpm) ...AR, II G

1,100 ± 50 min⁻¹(rpm) ...SW

Valve clearance (Cold)

Intake 0.16 mm (0.006 in)

Exhaust 0.22 mm (0.009 in)

CHASSIS AND SUSPENSION

Caster	25°
Trail	99 mm (3.9 in)
Tyre size, front	120/70 ZR17
Tyre size, rear	180/55 ZR17

POWER TRANSMISSION

Primary reduction	1.571
Gear ratio, 1st	2.769
2nd	2.000
3rd	1.579
4th	1.333
5th	1.167
6th	1.042
Final reduction	2.588

ELECTRICAL

Battery
Generator

12V – 10AH
0.39kW / 5,000 min⁻¹ (rpm)

LIGHTS

Headlight
Tail/brake light
Turn signal light Front
 Rear

12V – 55W × 2
12V – 5/21W × 2
12V – 21W
12V – 21W

Instrument lights
Neutral indicator
Turn signal indicator
High beam indicator
Low oil pressure indicator
Side stand indicator
Position light

12V – 1.7W × 4
12V – 3W
12V – 3W
12V – 3W
12V – 3W
12V – 3W
12V – 5W ... Except U

FUSE

Main fuse
Other fuses

30A
10A and 20A

NOISE CONTROL SYSTEM (AUSTRALIA ONLY)

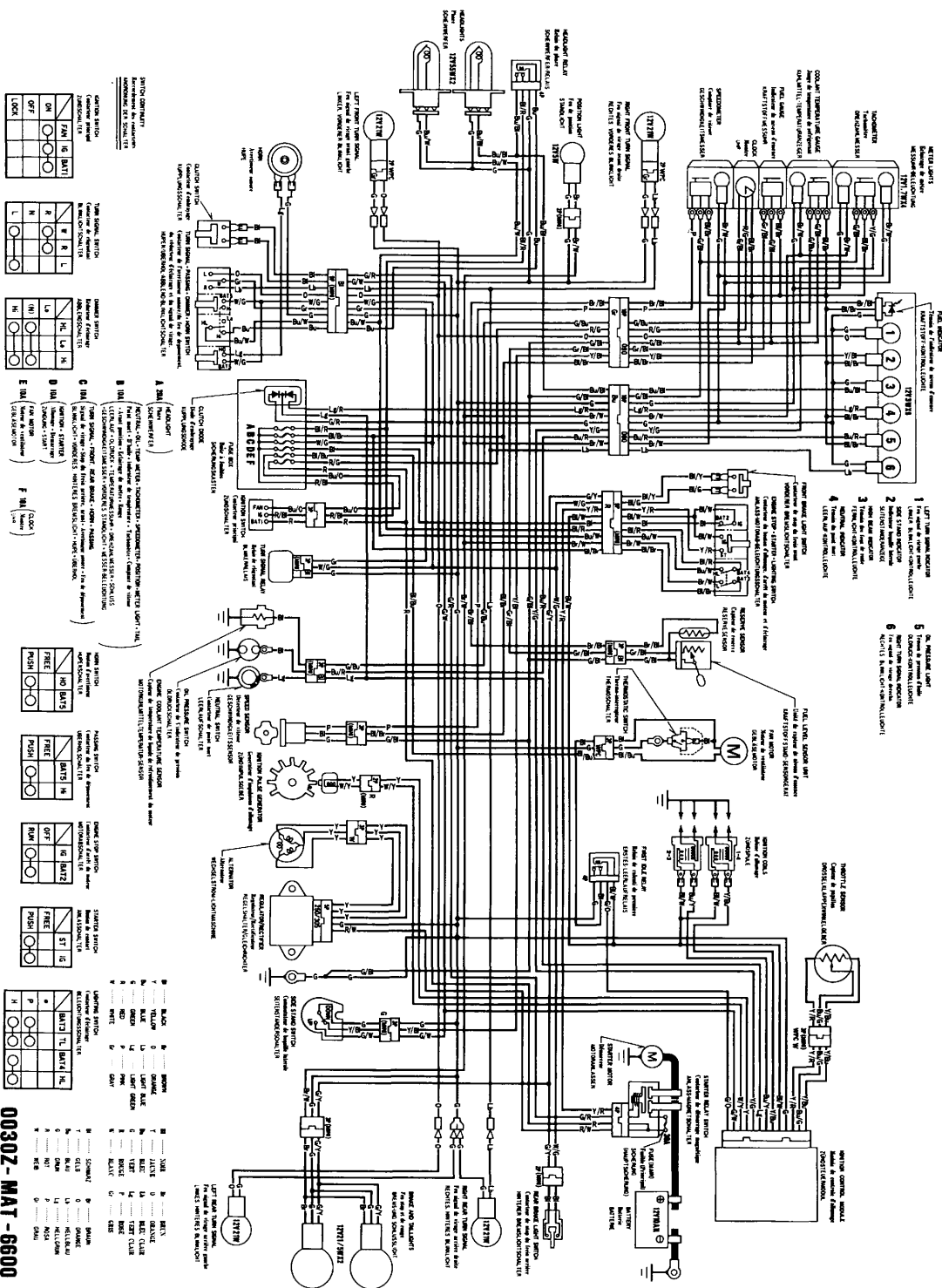
TAMPERING WITH THE NOISE CONTROL SYSTEM IS PROHIBITED: Owners are warned that the law may prohibit : (a) The removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new vehicle for the purpose of noise control prior to its sale or delivery to the ultimate purchaser or while it is in use; and (b) the use of the vehicle after such device or element of design has been removed or rendered inoperative by any person.

SINION CONTINUITY

	IG	ST	B
FREE			()
PUSH			

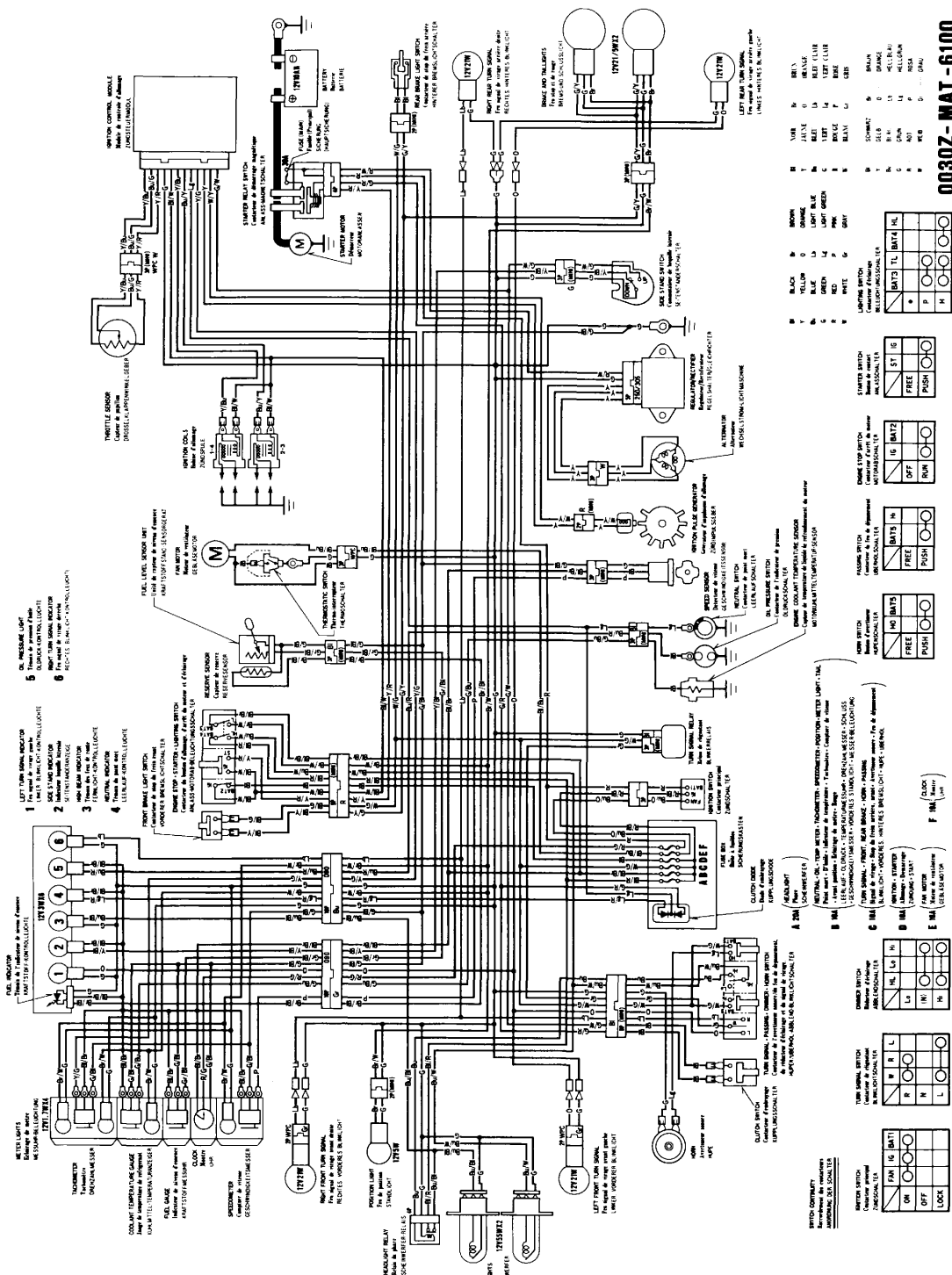
0030Z-MAT-6500

CBR1100XX (SW, AR, IG)



0030Z-MAT-6600

CBR1100XX(E,F,ED,ND,SD,BR)



0030Z-MAT-6100