

HONDA



HONDA

VT1100C2

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.

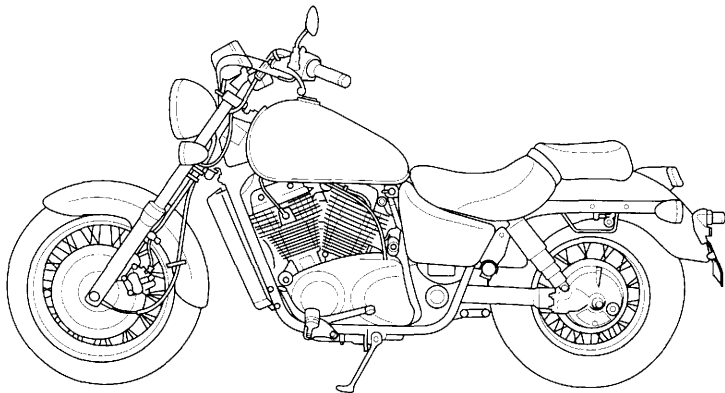
CAUTION:

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 VT1100C2 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.

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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 !

- Following codes in this manual indicate each country.

G	Germany Norway Sweden
FI	Finland
F	France

ED	(Europe) Belgium Holland Portugal
U	Australia

SW	Switzerland
II G	Germany (Type II)
AR	Austria
SP	Spain

- The specifications may vary with each locale.

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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 40) 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 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 additional accessories must not exceed the maximum weight capacity:

185 kg (408 lbs) ...Except AR, SW

181 kg (399 lbs) ...AR, SW

Cargo weight alone should not exceed:

18 kg (40 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 28) and rear suspension (page 12) 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. 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.

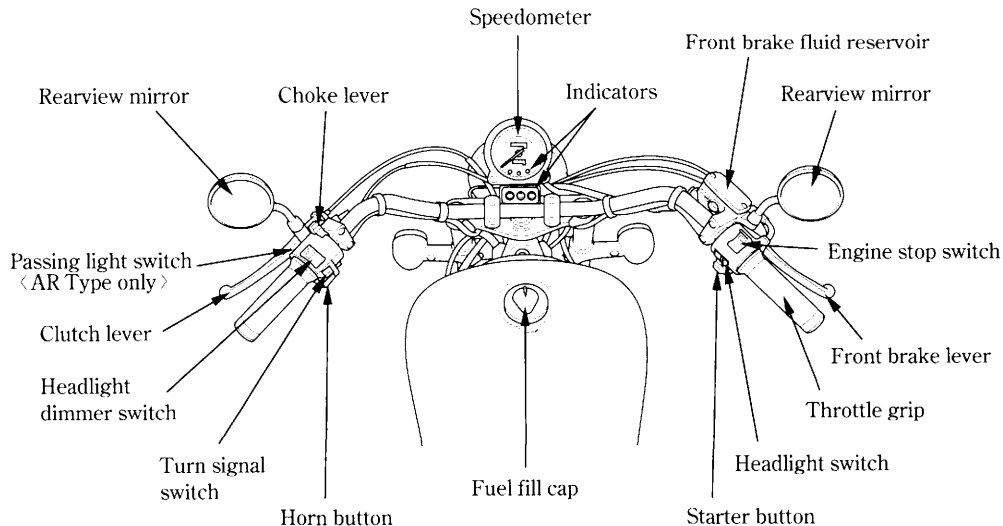
Accessories

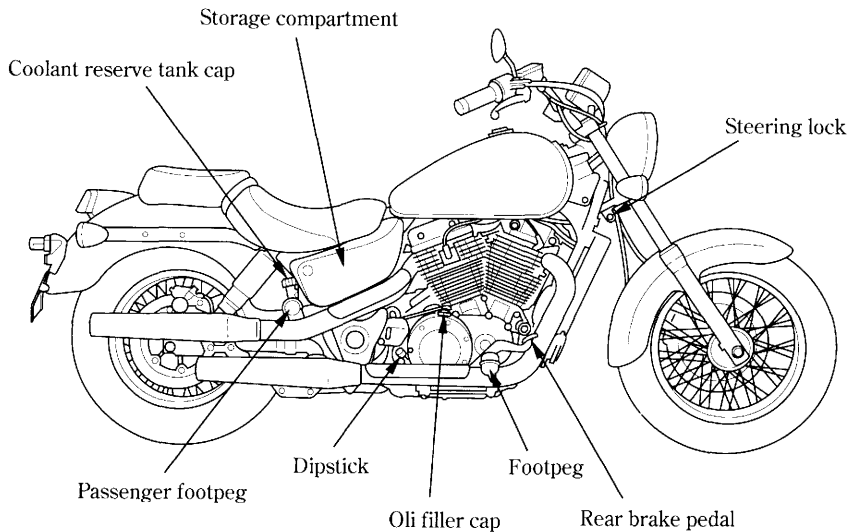
Genuine Honda accessories have been specifically designed for and tested on this motorcycle. Because the factory cannot test all other accessories, you are personally responsible for proper selection, installation, and use of non-Honda accessories. Always follow the guidelines under Loading, and these:

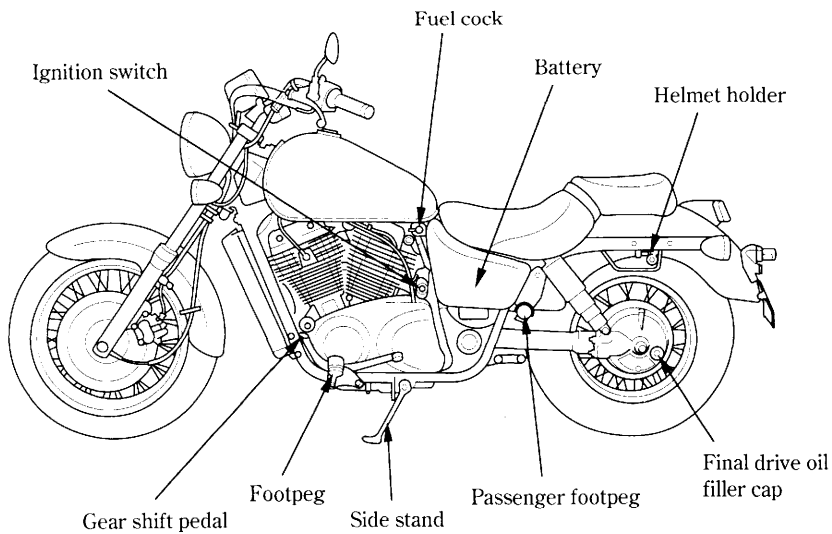
1. Carefully inspect the accessory to make sure it does not obscure any lights, reduce ground clearance and banking angle, or limit suspension travel, steering travel or control operation.
2. Large fork-mounted fairings or windshields, or poorly designed or improperly mounted fairings can produce aerodynamic 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





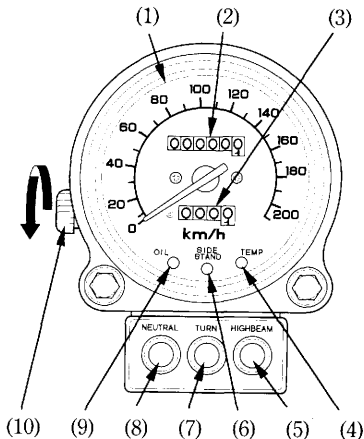


INSTRUMENTS AND INDICATORS

The indicators are located within and below the speedometer.

Their functions are described in the table on the following page.

- (1) Speedometer
- (2) Odometer
- (3) Tripmeter
- (4) Coolant temperature indicator
- (5) High beam indicator
- (6) Side stand indicator
- (7) Turn signal indicator
- (8) Neutral indicator
- (9) Low oil pressure indicator
- (10) Tripmeter reset knob



Ref. No.	Description	Function
1	Speedometer	Shows riding speed.
2	Odometer	Shows accumulated mileage.
3	Tripmeter	Shows mileage per trip.
4	Coolant temperature indicator (red)	Lights when the coolant is over the specified temperature. If the indicator goes on while riding, stop the engine and check the reserve tank coolant level. Read pages 19–20 and do not ride the motorcycle until the problem has been corrected. CAUTION: * Exceeding maximum running temperature may cause serious engine damage.
5	High beam indicator (blue)	Lights when the headlight is on high beam.
6	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 41) is activated.

Ref. No.	Description	Function
7	Turn signal indicator (green)	Flashes when the turn signal operates.
8	Neutral indicator (green)	Lights when the transmission is in neutral.
9	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 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.
10	Tripmeter reset knob	Resets tripmeter to zero (0). Turn knob in direction shown.

MAJOR COMPONENTS (Information you need to operate this motorcycle)

⚠ WARNING

* If the Pre-ride Inspection (page 40) is not performed, severe personal injury or vehicle damage may result.

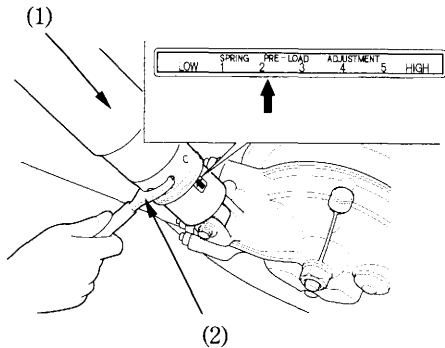
SUSPENSION

Each shock absorber (1) has 5 adjustment positions for different load or riding conditions.

Use a pin spanner (2) to adjust the rear shocks.

Position 1 is for light loads and smooth road conditions. Positions 2 to 5 increase spring preload for a stiffer rear suspension, and can be used when the motorcycle is heavily loaded. Be certain to adjust both shock absorbers to the same position.

Standard position : 2



(1) Shock absorber

(2) Pin spanner

BRAKES

Front Brake

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

As the brake pads wear, 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 free travel becomes excessive and the brake pads are not worn beyond the recommended limit (page 76), there is probably air in the brake system and it must be bled. See your authorized Honda dealer for this service.

Brake Fluid Level:

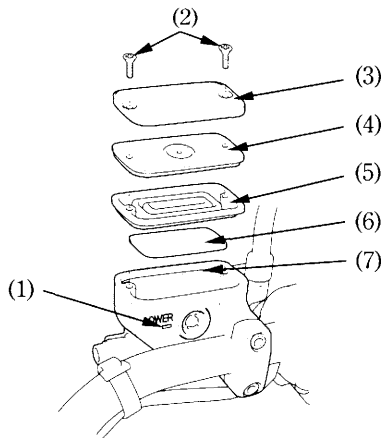
▲WARNING

- * **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.



- | | |
|----------------------|----------------------|
| (1) LOWER level mark | (4) Diaphragm plate |
| (2) Screws | (5) Diaphragm |
| (3) Reservoir cover | (6) Float |
| | (7) Upper level mark |

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), diaphragm (5), and float (6). Fill the reservoir with DOT 4 BRAKE FLUID from a sealed container up to the upper level mark (7). Reinstall the float, diaphragm, diaphragm plate, and cover. Tighten the screws securely.

Other Checks:

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

Rear Brake Fluid Level:

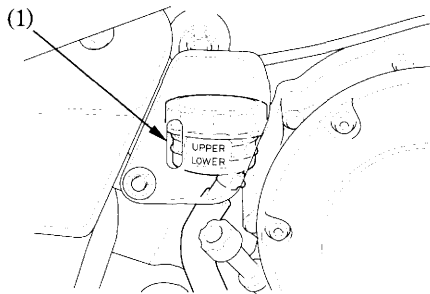
▲WARNING

- * 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 reservoir cover with the motorcycle in an upright position.

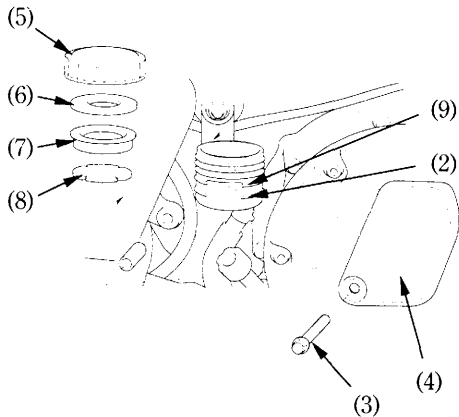


(1) Inspection window

Brake fluid must be added to the reservoir whenever the fluid level begins to reach the LOWER level mark (2). Remove the bolt (3) and reservoir cover (4). Remove the reservoir cap (5), diaphragm plate (6), diaphragm (7) and float (8). Fill the reservoir with DOT 4 BRAKE FLUID from a sealed container up to the UPPER level mark (9). Reinstall the float, diaphragm, diaphragm plate and cap securely.

Other Checks:

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



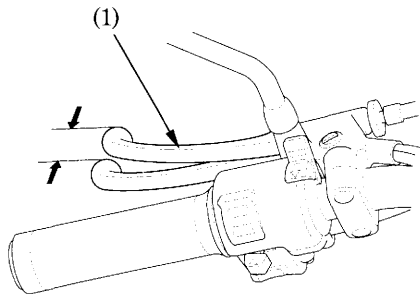
- | | |
|----------------------|----------------------|
| (2) LOWER level mark | (6) Diaphragm plate |
| (3) Bolt | (7) Diaphragm |
| (4) Reservoir cover | (8) Float |
| (5) Reservoir cap | (9) UPPER level mark |

CLUTCH

Clutch adjustment may be required if the motorcycle stalls when shifting into gear or tends to creep; or if the clutch slips, causing acceleration to lag behind engine speed. Minor adjustments can be made with the clutch cable adjuster (3) at the lever (1).

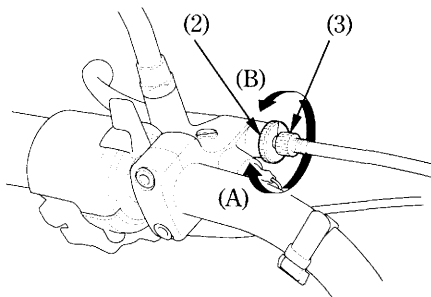
Normal clutch lever free play is:

10–20 mm (0.4–0.8 in)



(1) Clutch lever

1. Loosen the lock nut (2) and turn the adjuster (3). Tighten the lock nut (2) and check the adjustment.
2. If the adjuster is threaded out near its limit or if the correct free play cannot be obtained, loosen the lock nut (2) and turn in the cable adjuster (3) completely. Tighten the lock nut (2).



(2) Lock nut

(3) Clutch cable adjuster

(A) Increase free play

(B) Decrease free play

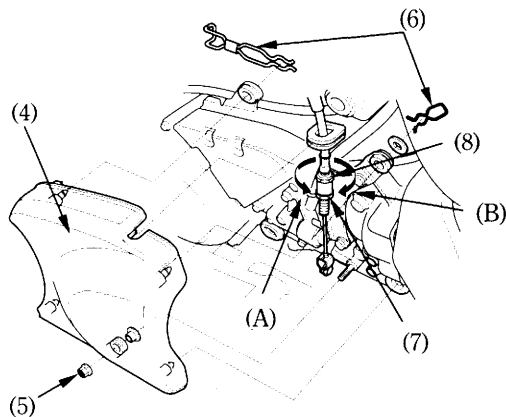
3. To adjust the lower end of the cable, remove the engine cover (4) by removing the nut (5) and set pins (6).
4. Loosen the lock nut (7) at the lower end of the cable. Turn the adjusting nut (8) to obtain the specified free play. Tighten the lock nut (7) and check the adjustment.
5. Start the engine, pull in the clutch lever and shift into gear. Make sure the engine does not stall and the motorcycle does not creep. Gradually release the clutch lever and open the throttle. The motorcycle should begin to move smoothly and accelerate gradually.

NOTE:

- * If proper adjustment cannot be obtained or the clutch does not work correctly, see your authorized Honda dealer.

Other Checks:

Check the clutch cable for kinks or signs of wear that could cause sticking or failure. Lubricate the clutch cable with a commercially available cable lubricant to prevent premature wear and corrosion.



(4) Engine cover

(5) Nut

(6) Set pins

(7) Lock nut

(8) Adjusting nut

(A) Increase free play

(B) Decrease free play

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:

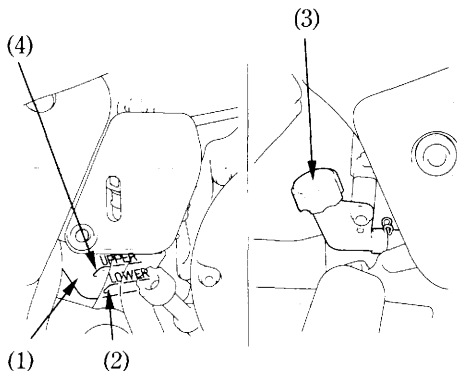
- * Use only low-mineral drinking water or distilled water as a part of the antifreeze solution. Water that is high in mineral content or salt may be harmful to the aluminum engine.**

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 rear brake fluid reservoir.

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 (2), remove the reserve tank cap (3) and add coolant mixture until it reaches the UPPER level mark (4). Do not remove the radiator cap.



(1) Reserve tank

(2) LOWER level mark

(3) Reserve tank cap

(4) 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.

FUEL

Manual Fuel Cock

The manual fuel cock (1) is under the left side of the fuel tank. Set it to ON for normal operation or RES when you start to run out of the main fuel supply. The OFF setting is only for long term storage or servicing of fuel system components.

Automatic Fuel ON-OFF

With the fuel cock set to ON (or RES) fuel flows to the carburetors only when the engine is being started or is running. A diaphragm shuts off fuel flow when the engine is turned off.

Reserve Fuel

When the main fuel supply is gone, turn the fuel cock to RES. Refill the tank as soon as possible after switching to RES, then switch the cock back to ON.

The reserve fuel supply is:

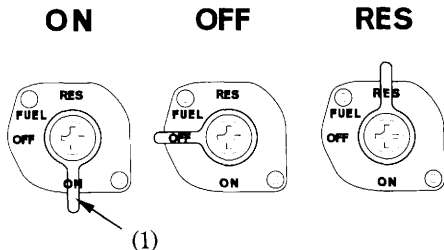
3.5 ℓ (0.92 US gal , 0.77 Imp gal)

⚠ WARNING

*** To avoid running out of fuel that may result in a sudden stop, learn how to operate the fuel cock when riding the motorcycle.**

NOTE:

*** Remember to check that the fuel cock is in the ON position each time you refuel. If the cock is left in the RES position, you may run out of fuel with no reserve.**



(1) Fuel cock

Fuel Tank

The fuel tank capacity including the reserve supply is:

15 ℓ (4.0 US gal, 3.3 Imp gal)

To open the fuel fill cap (1), insert the ignition key (2) and turn it clockwise. The fuel fill cap will pop up and can be lifted off.

After refueling, to close the fuel fill cap, align the latch in the cap with the slot in the filler neck. Push the fuel fill cap into the filler neck until it snaps closed and locks. Remove the key.

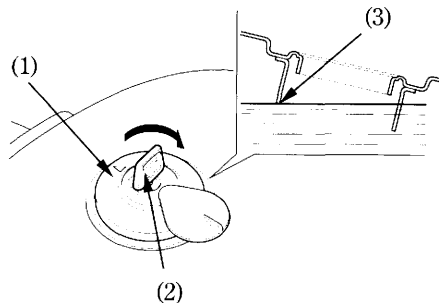
Use unleaded or low-lead petrol with a research octane number of 91 or higher. We recommend that you use unleaded petrol because it produces fewer engine and spark plug deposits and extends the life of exhaust system components.

FOR AUSTRALIA 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.**

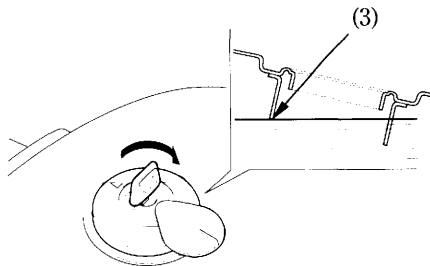


- (1) Fuel fill cap
(3) Filler neck

- (2) Ignition key

⚠ 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.**



(3) Filler neck

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.

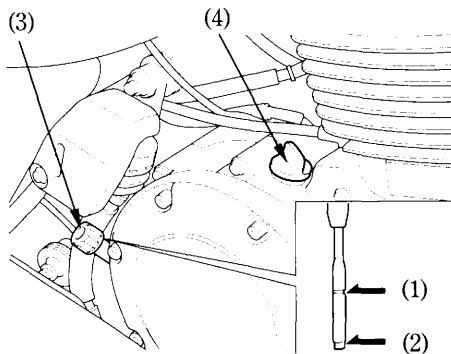
The level must be maintained between the upper (1) and lower (2) level marks on the dipstick (3).

1. Start the engine and let it idle for a few minutes. Make sure the low oil pressure indicator goes off. If the light remains on, stop the engine immediately.
2. Stop the engine and hold the motorcycle in an upright position on firm, 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 60) 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

FINAL DRIVE OIL

Oil Level Check

Check the final drive oil level when specified by the maintenance schedule (page 51).

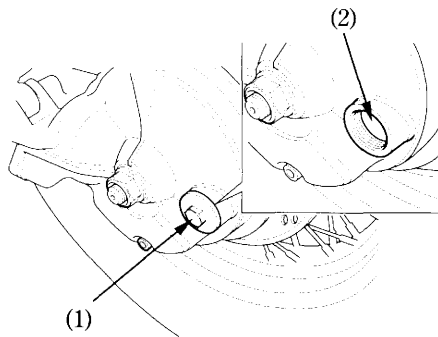
1. Place the motorcycle on its side stand.
2. Remove the oil filler cap (1).
3. Check that the oil level reaches the lower edge of the oil cap hole.

NOTE:

- * If the level is low, check for leaks. Pour fresh oil through the oil filler hole until it reaches the lower edge of the opening.

Recommended Oil:

HYPOID GEAR OIL SAE 80



(1) Oil filler cap

(2) Oil cap hole

TYRES

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”.

On-road tyres are standard on this model. Select the right replacement tyres in accordance with the following specifications. Check the tyres for cuts, embedded nails, or other sharp objects. See your authorized Honda dealer for replacement of damaged tyres or punctured inner tubes.

		Front	Rear
Tyre size		120/90 – 18 65H	170/80 – 15 M/C 77H
Cold tyre pressures kpa (kg/cm ² , psi)	Rider only	225 (2.25 , 33)	225 (2.25 , 33)
	Rider and one passenger	225 (2.25 , 33)	280 (2.80 , 41)
Tyre brand DUNLOP		K177F	K555

⚠ WARNING

- * Do not attempt to patch a damaged tyre or inner tube. Wheel balance and tyre reliability may be impaired.
- * 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.
- * The use of tyres other than those listed on the tyre information label may adversely affect 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)

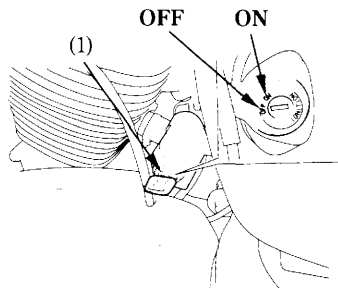
NOTE: <For Germany>

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

ESSENTIAL INDIVIDUAL COMPONENTS

IGNITION SWITCH

The ignition switch (1) is located below the fuel cock.



(1) Ignition switch

Key Position	Function	Key Removal
P (parking) (AR type only)	For parking the motorcycle near traffic. The taillight is on, but all other lights are off. The engine cannot be started.	Key can be removed
OFF	Engine and lights cannot be operated.	Key can be removed
ON	Engine and light can be operated.	Key cannot be removed

RIGHT HANDLEBAR CONTROLS

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.

Headlight Switch < Except U type >

The headlight switch (2) has three positions; "H", "P" and "OFF" marked by a red dot to the left of "P".

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

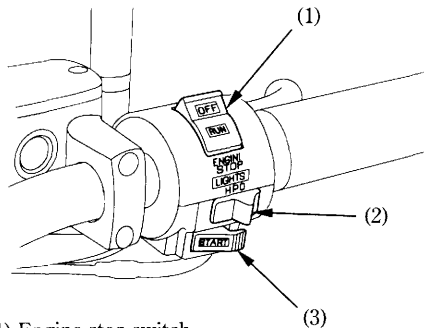
P: Position light, taillight and meter light on.

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 42 for the starting procedure.



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

LEFT HANDLEBAR CONTROLS

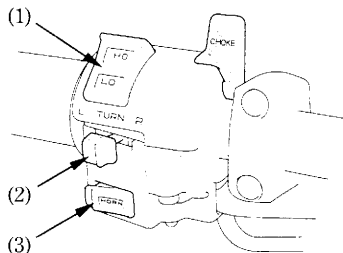
Headlight Dimmer Switch (1)

Select HI for beam, LO for low beam.

Turn Signal Switch (2)

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

〈Except AR type〉



- (1) Headlight dimmer switch
- (2) Turn signal switch

Horn Button(3)

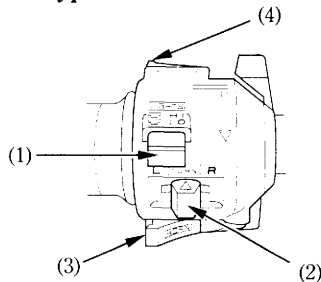
Press the button to sound the horn.

Passing Light Control Switch (4)

〈AR type only〉

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

〈AR type〉



- (3) Horn button
- (4) Passing light control switch

FEATURES

(Not required for operation)

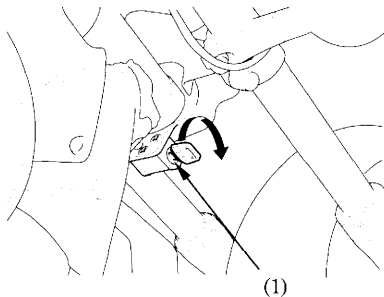
STEERING LOCK

The steering lock (1) is on the steering stem.

To Lock:

〈F,ED,U,SW,AR,SP type〉

Turn the handlebar all the way to the left or right, and insert the key into the lock, turn the key clockwise and remove it.



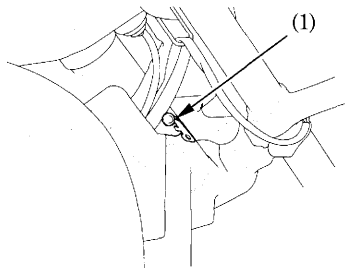
(1) Steering lock

〈F,ED,U,SW,AR,SP type〉

〈G, II G,FI type〉

The steering lock (1) is on the steering column.

To lock the steering, turn the handlebar all the way to the left, insert the steering key into the lock, turn the key counterclockwise as far as possible. Then, press the lock all the way in, turn the key back to the original position, and remove the key. To unlock the steering, perform the locking sequence in the reverse order.



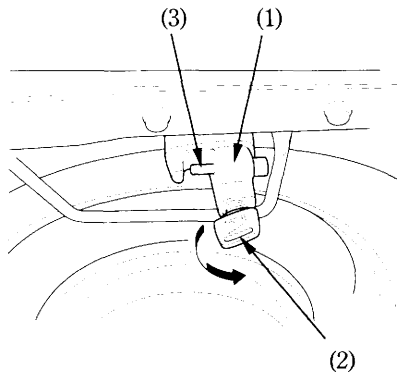
(1) Steering lock 〈G, II G,FI type〉

HELMET HOLDER

The helmet holder (1) is on the left side below the seat. Insert the ignition key (2) and turn it counterclockwise to unlock. Hang your helmet on the holder pin (3) and push it in to lock. Remove the key.

⚠ 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.**



(1) Helmet holder

(2) Ignition key

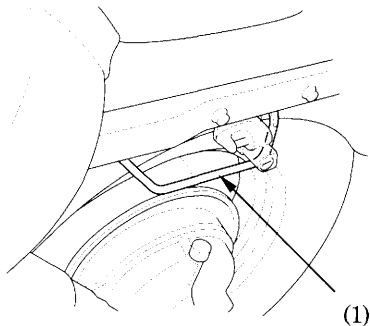
(3) Holder pin

SOFT LUGGAGE RESTRAINT

Restraint bar (1) is installed on the left side of the rear fender, to keep soft saddlebags from contacting the wheel.

▲WARNING

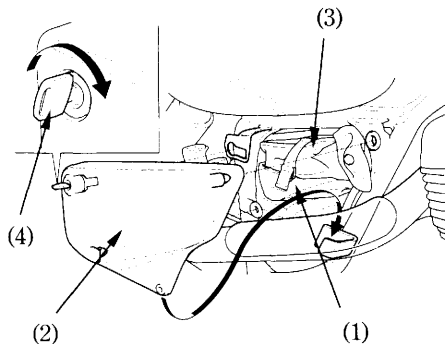
- * Do not use the restraint bar as tie-downs or attachment point for luggage. If any weight is attached to the bar, it could interfere with safe operation of the motorcycle.



(1) Restraint bar

STORAGE COMPARTMENT

The storage compartment (1) is located behind the right side cover (2). The tool kit (3) should be stored in the compartment. To remove the right side cover, insert the ignition key (4) into the lock and turn clockwise to unlock the compartment. When washing your motorcycle, be careful not to flood this area with water.



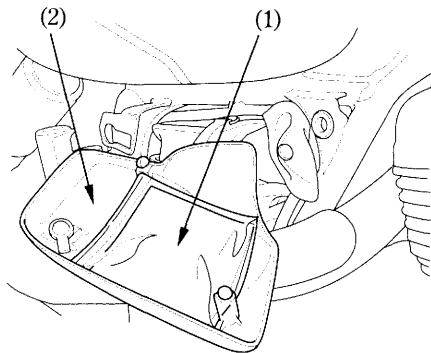
- (1) Storage compartment
- (2) Right side cover
- (3) Tool kit
- (4) ignition key

DOCUMENT COMPARTMENT

The document compartment (1) is inside the right side cover (2) (page 36).

This owner's manual and other documents should be stored in this compartment.

When washing your motorcycle, be careful not to flood this area with water.



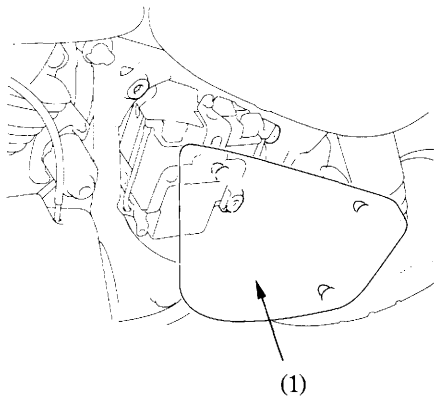
(1) Document compartment

(2) Right side cover

SIDE COVER

The left side cover must be removed for battery maintenance.

To remove the left side cover (1), pull out the cover.



(1) Side cover

SEAT

The seat must be removed for air cleaner maintenance.

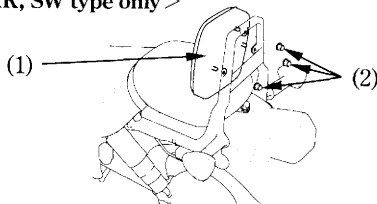
Seat removal:

1. Remove the seat back (1) by removing the three nuts (2). <AR, SW type only>
2. Remove the three bolts (3).
3. Pull the seat assembly (4) back and up.

Seat installation:

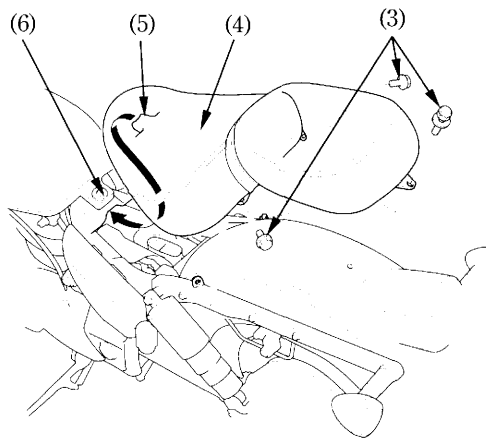
1. Insert the seat tab (5) into the frame cross member (6).
2. Install and tighten the three bolts.
3. Install the seat back and tighten the three nuts. <AR, SW type only>

<AR, SW type only>



(1) Seat back

(2) Nuts



(3) Bolt

(4) Seat assembly

(5) Seat tab

(6) Frame cross member

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 26). Check for leaks.
2. Fuel level—fill fuel tank when necessary (page 23). Check for leaks.
3. Coolant level—add coolant if required. Check for leaks (pages 19 – 21).
4. Front and rear brakes—check operation; make sure there is no brake fluid leakage (pages 13 – 16).

5. Tyres—check condition and pressure (page 28–29).
6. Lights and horn—check that headlight, tail/brake light, turn signals, indicators and horn function properly.
7. Throttle—check for smooth opening and full closing in all steering positions.
8. Engine stop switch—check for proper function (page 31).
9. Side stand ignition cut-off system—check for proper function (page 70).
10. Battery electrolyte—check the level and add if necessary (page 80).

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

STARTING THE ENGINE

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.

NOTE:

- * The electric starter will work when the transmission is in gear with the clutch disengaged.

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.
- The fuel cock is ON.

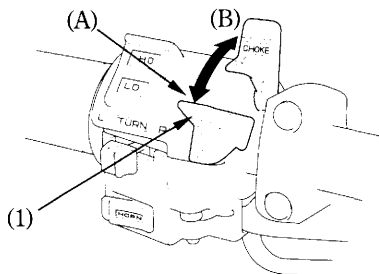
Starting Procedure

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.



(1) Chock lever

(A) Fully ON

(B) Fully OFF

NOTE:

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

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.**
3. Immediately after the engine starts, operate the choke lever (1) to keep fast idle.
 4. About a half 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.

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.
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.**

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

During the first 1,000 km (600 miles), avoid full throttle use and never labour the engine. Do not operate at any one speed for prolonged periods.

During initial running-in newly machined surfaces will be in contact with each other and these surfaces will wear in quickly. Running-in maintenance at 1,000km (600 miles) is designed to compensate for this initial minor wear. Timely performance of the running-in maintenance will ensure optimum service life and performance from the engine.

RIDING

⚠ WARNING

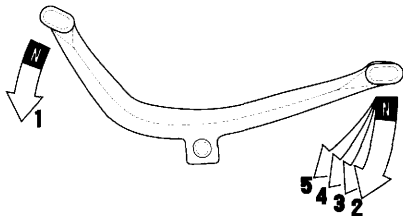
***Review Motorcycle Safety (pages 1 – 5) before you ride.**

NOTE:

***Make sure you understand the function of the side stand mechanism. (See MAINTENANCE SCHEDULE on page 51 and explanation for SIDE STAND on page 70)**

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 and 5th (top) gears.

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

1. For normal braking, gradually apply both the front and rear brakes while downshifting to suit your road speed.
2. For maximum deceleration, close the throttle and apply the front and rear brakes firmly. Pull in the clutch lever before coming to a complete stop to prevent stalling the engine.

▲WARNING

- * **Independent use of only the front or rear brake reduces stopping performance. Extreme braking may cause either wheel to lock, reducing control of the motorcycle.**
- * **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.**

▲WARNING

- * **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 fuel cock OFF, turn the handlebar fully to the left, turn the ignition switch OFF and remove the key.
2. Use the side 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 33).

NOTE:<AR Type only >

- * When stopping for a short time near traffic at night, the ignition switch may be turned to P and the key removed. This will turn on the taillight to make the motorcycle more visible to traffic. The battery will discharge if the ignition switch is left at P for too long a time.

ANTI-THEFT TIPS

1. Always lock the steering and never leave the key in the steering lock. 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 motorcycle 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 40) 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 COMES FIRST NOTE	ODOMETER READING [NOTE(1)]										REFER TO PAGE
				x1,000km x1,000mi	1	6	12	18	24	30	36			
					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		67		
*	CARBURETOR CHOKE					I		I		I		—		
	AIR CLEANER	(NOTE 2)						R			R	57		
	CRANKCASE BREATHER	(NOTE 3)			C	C	C	C	C	C	C	59		
	SPARK PLUG				I	R	I	R	I	R		64		
	ENGINE OIL			R		R		R		R		60		
	ENGINE OIL FILTER			R		R		R		R		61		
*	CARBURETOR SYNCHRONIZATION			I		I		I		I		—		
*	ENGINE IDLE SPEED			I	I	I	I	I	I	I		68		
	RADIATOR COOLANT	(NOTE 4)				I		I		R		19		
*	COOLING SYSTEM					I		I		I		—		
*	SECONDARY AIR SUPPLY SYSTEM	(NOTE 5)				I		I		I		—		

ITEM \ FREQUENCY		WHICHEVER	ODOMETER READING [NOTE(1)]									
			COMES FIRST ↓	x1,000km	1	6	12	18	24	30	36	REFER TO PAGE
				x1,000mi	0.6	4	8	12	16	20	24	
				NOTE	MONTH		6	12	18	24	30	
	FINAL DRIVE OIL					I		I		R	27, 66	
	BATTERY					I	I	I	I	I	78	
	BRAKE FLUID	(NOTE 4)				I	I	R	I	I	R	13
	BRAKE PAD WEAR					I	I	I	I	I	I	76
	BRAKE SYSTEM				I		I		I		I	13, 76
*	BRAKE LIGHT SWITCH						I		I		I	84
*	HEADLIGHT AIM						I		I		I	—
	CLUTCH SYSTEM				I	I	I	I	I	I	I	17
	SIDE STAND						I		I		I	70
*	SUSPENSION						I		I		I	69
*	NUTS, BOLTS, FASTENERS				I		I		I		I	—
**	WHEELS/TYRES				I	I	I	I	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) Service more frequently when riding in rain or at full throttle.
 - (4) Replace every 2 years, or at indicated odometer interval, whichever comes first. Replacement requires mechanical skill.
 - (5) Switzerland and Austria type only.

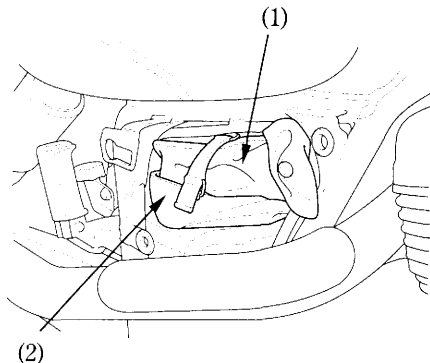
TOOL KIT

The tool kit (1) is in the storage compartment (2) inside the right side cover (page 36).

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

- 10 × 12 mm open end wrench
- 14 × 17 mm open end wrench
- 8 mm open end wrench
- 10 × 12 mm box end wrench
- 8 mm box end wrench
- 10 mm box end wrench
- 22 mm box end wrench
- 27 mm box end wrench
- 5 mm hex wrench
- 6 mm hex wrench
- Spark plug wrench
- No.2 screwdriver
- No.2 Phillips screwdriver
- Screwdriver grip
- Pliers
- Pin spanner
- Extension bar

- Tool bag

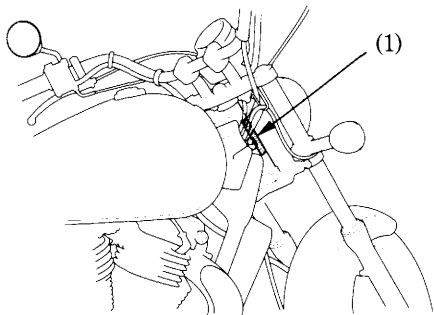


- (1) Tool kit
- (2) Storage compartment

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. _____

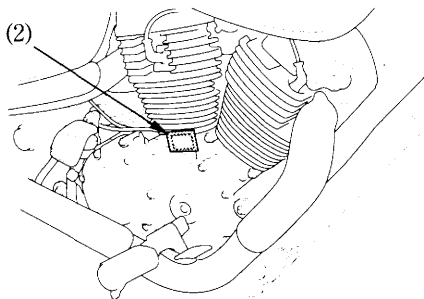


(1) Frame number

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

The engine number (2) is stamped on the right side of the cylinder.

ENGINE NO. _____



(2) Engine number

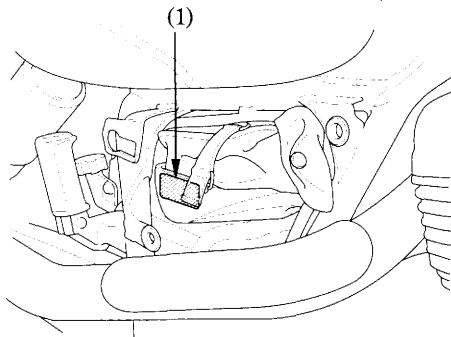
COLOUR LABEL

The colour label (1) is attached to the storage compartment inside the right side cover.

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.

▲WARNING

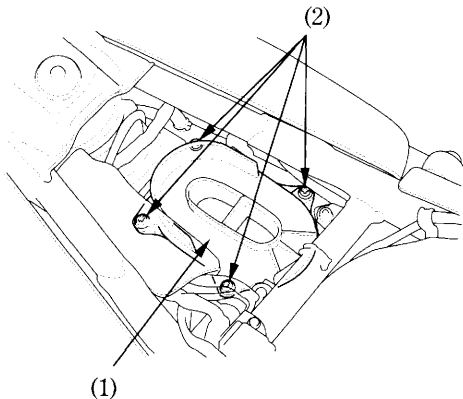
- * Use new, genuine Honda parts or their equivalent for maintenance and repair. Parts which are not of equivalent quality may impair the safety of your motorcycle.

AIR CLEANER

(Refer to the maintenance precautions on page 56).

The air cleaner should be serviced at regular intervals (page 50). Service more frequently when riding in unusually wet or dusty areas.

1. Remove the seat (page 39).
2. Remove the air cleaner housing cover (1) by removing four screws (2) .

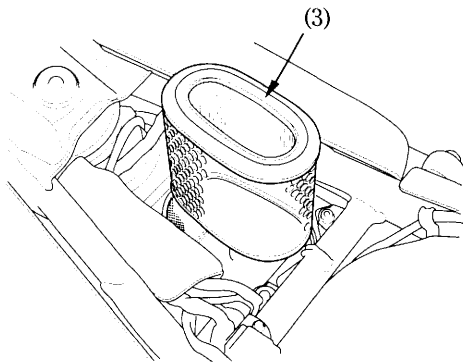


- (1) Air cleaner housing cover
(2) Screws

3. Pull out the air cleaner (3).
4. Discard the air cleaner.
5. Install a new air cleaner.

Use the Honda genuine air cleaner or an equivalent air cleaner specified for your model. Using the wrong Honda air cleaner or a non-Honda air cleaner which is not of equivalent quality may cause premature engine wear or performance problems.

6. Install the removed parts in the reverse order of disassembly.



(3) Air cleaner

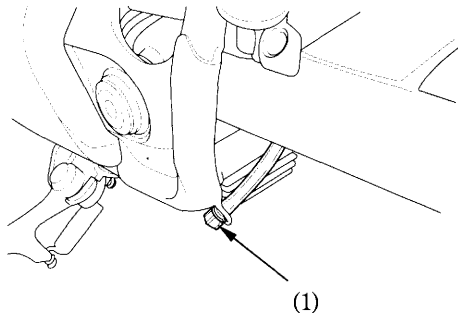
CRANKCASE BREATHER

(Refer to the maintenance precautions on page 56).

1. Remove the crankcase breather tube plug (1) from the tube and drain deposits into a suitable container.
2. Reinstall the crankcase breather tube plug.

NOTE:

- * Service more frequently when riding in rain, at full throttle, or after the motorcycle is washed or overturned. Service if the deposit level can be seen in the transparent section of the drain tube.



(1) Crankcase breather tube plug

ENGINE OIL

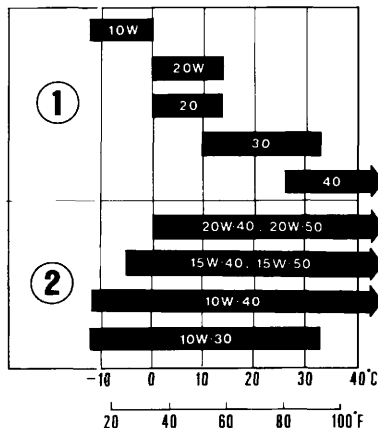
(Refer to the maintenance precautions on page 56).

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.



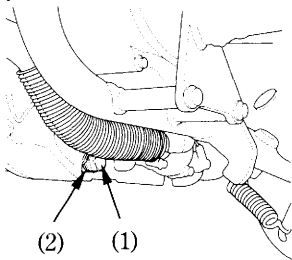
(1) Single grade

(2) Multigrade

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 50).

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 side stand to assure complete and rapid draining.

CAUTION:

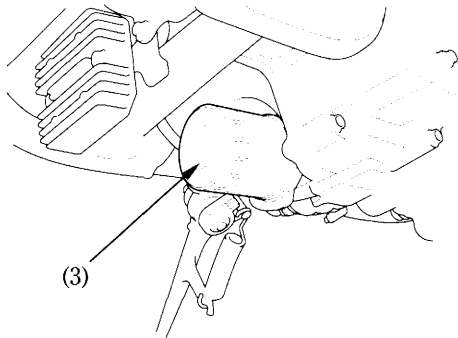
- * **To prevent oil leaks and filter damage, never support the engine on the oil filter.**

1. To drain the oil, remove the oil filler cap and crankcase drain plug (1) and sealing washer (2).

▲WARNING

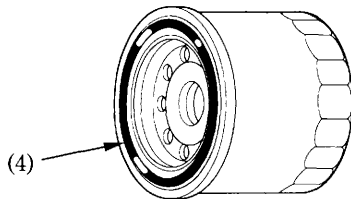
- * **A warmed-up engine and the oil in it are hot; be careful not to burn yourself.**

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



(3) Oil filter

3. Apply a thin coat of engine oil to the new oil filter rubber seal (4).
4. Using a special tool and a torque wrench, install the new oil filter and tighten to a torque of:
10 N·m (1.0 kg-m , 7 lb-ft)



(4) Oil filter rubber seal

5. 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.
6. 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:
30 N·m (3.0 kg·m , 22 lb·ft)
7. Fill the crankcase with the recommended grade oil; approximately:
3.5 ℓ (3.7 US qt , 3.1 Imp qt)
8. Install the oil filler cap.
9. Start the engine and let it idle for 2–3 minutes.
10. Several minutes after stopping the engine, check that the oil level is at the upper level mark on the dipstick with the motorcycle upright on firm, 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 56).

Recommended plugs:

Standard:

DPR7EA—9 (NGK) or

X22EPR—U9 (NIPPONDENSO)

For cold climate: (Below 5°C, 41°F)

DPR6EA—9 (NGK) or

X20EPR—U9 (NIPPONDENSO)

For extended high speed riding:

DPR8EA—9 (NGK) or

X24EPR—U9 (NIPPONDENSO)

1. Clean any dirt from around the spark plug base.
2. Disconnect the spark plug cap and remove the spark plug with the spark plug wrench provided in the tool bag.
3. Visually inspect the spark plug electrodes for wear. The center electrode should have square edges and the side electrode should not be eroded.
Discard the spark plug if there is apparent wear or if the insulator is cracked or chipped.

4. Check the spark plug gap (1) using a wire-type feeler gauge. If adjustment is necessary, bend the side electrode (2) carefully.

The gap should be:

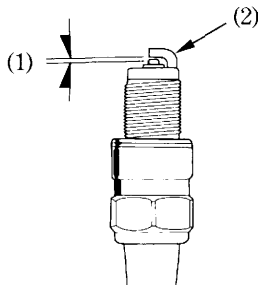
0.80–0.90 mm (0.031–0.035 in)

Make sure the plug washer is in good condition.

5. With the plug washer attached, thread the spark plug in by hand to prevent cross-threading.
6. 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.
- Reinstall the spark plug caps.

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.**



- (1) Spark plug gap
(2) Side electrode

FINAL DRIVE OIL

(Refer to the maintenance precautions on page 56).

Change the oil as specified in the maintenance schedule.

NOTE:

- * Change the oil with the final drive at normal operating temperature and the motorcycle upright on level ground to assure complete and rapid draining.

1. To drain the oil, remove the oil filler cap (1) and drain plug (2).
2. After the oil has completely drained, check that the sealing washer (3) on the drain plug is in good condition and install the drain plug.

Drain Plug Torque:

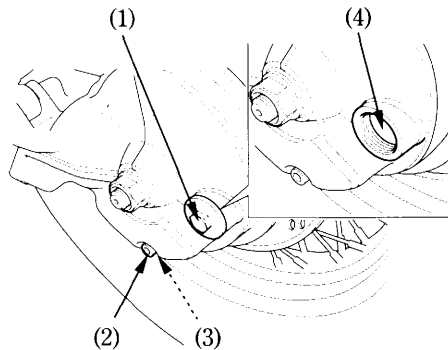
12 N·m (1.2 kg-m, 9 lb-ft)

3. With the motorcycle upright on level ground, fill the final drive with the recommended grade oil; approximately:

150 cc (5.1 US oz, 5.3 Imp oz)

Make sure the final drive is filled up to the lower edge of the inspection hole (4) with the recommended oil.

4. Install the oil filler cap.



- | | |
|--------------------|---------------------|
| (1) Oil filler cap | (3) Sealing washer |
| (2) Oil drain plug | (4) Inspection hole |

THROTTLE OPERATION

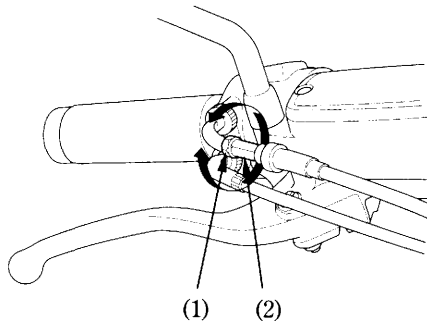
(Refer to the maintenance precautions on page 56).

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 56).

The engine must be at normal operating temperature for accurate idle speed adjustment. Ten minutes of stop-and-go riding is sufficient.

NOTE:

* Do not attempt to compensate for faults in other systems by adjusting idle speed. See your authorized Honda dealer for regularly scheduled carburetor adjustments, including individual carburetor adjustment and synchronization.

1. Warm up the engine, shift to neutral and place the motorcycle on its side stand.
2. Connect a tachometer to the engine.
3. Adjust idle speed with the throttle stop screw (1).

Idle Speed

G, F, ED, U, II G, SP, FI type:

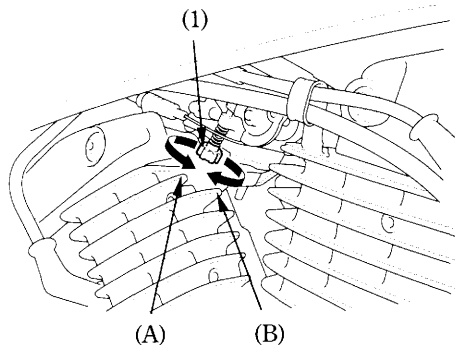
$1,000 \pm 100 \text{ min}^{-1}(\text{rpm})$ (In neutral)

SW type:

$1,100 \pm 50 \text{ min}^{-1}(\text{rpm})$ (In neutral)

AR type:

$1,100 \pm 100 \text{ min}^{-1}(\text{rpm})$ (In neutral)



(1) Throttle stop screw

(A) Increase

(B) Decrease

FRONT AND REAR SUSPENSION INSPECTION

(Refer to the maintenance precautions on page 56).

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 a support block. Free play indicates worn bearings.
3. Carefully inspect all front and rear suspension fasteners for tightness.

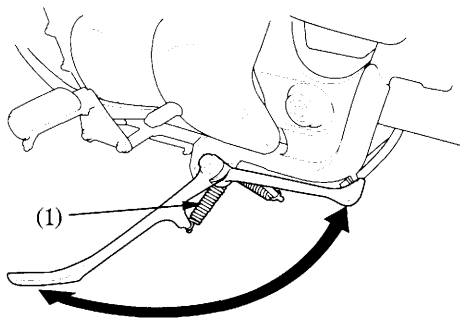
SIDE STAND

(Refer to the maintenance precautions on page 56).

Check the side stand system for proper function.

- 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) Spring

WHEEL REMOVAL

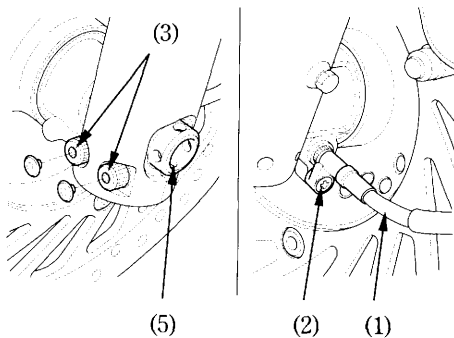
(Refer to the maintenance precautions on page 56).

NOTE:

- * This motorcycle is equipped with a side stand only. Therefore, if front or rear wheel removal is required, it will be necessary to raise the center of the motorcycle with a chain hoist. If none is available, see your authorized Honda dealer for this service.

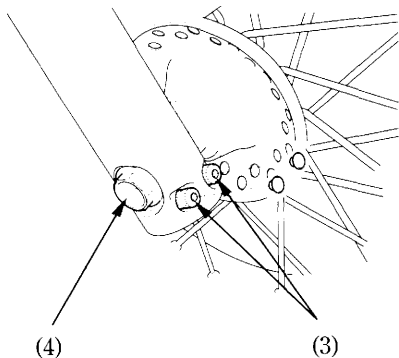
Front Wheel Removal

1. Raise the front wheel off the ground by using a chain hoist.
2. Disconnect the speedometer cable (1) by removing the speedometer cable set screw (2).



- (1) Speedometer cable
- (2) Speedometer cable set screw
- (3) Axle pinch bolts
- (5) Front axle

3. Loosen the right and left axle pinch bolts (3), and remove the axle bolt (4).
4. Pull out the front axle (5) and remove the front wheel.



- (3) Axle pinch bolts
(4) Axle bolt

NOTE:

- * Do not depress the brake lever when 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.

Installation Notes:

- To install the front wheel assembly, install the brake disc between the brake pads taking care not to damage the brake pads and insert the axle through the left fork leg.
- Make sure that the lug (6) on the fork leg is contacting the lug on the speedometer gear box. Tighten the axle bolt and axle pinch bolts to specified torques.

Axle bolt torque:

60 N·m (6.0 kg-m , 44 lb-ft)

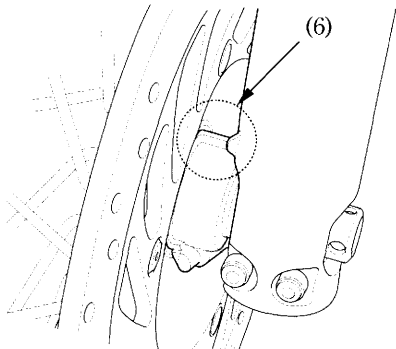
Axle pinch bolts torque:

22 N·m (2.2 kg-m , 16 lb-ft)

- After installing the wheel, apply the brake several times and then check if the wheel rotates freely. Recheck the wheel if the brake drags or if the wheel does not rotate freely.

⚠ WARNING

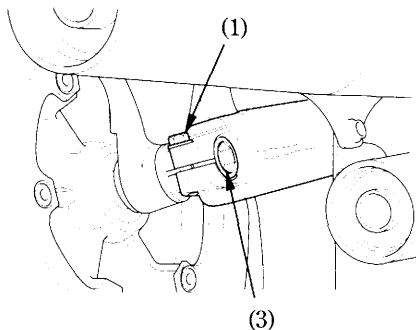
- * If a torque wrench was not used for installation, see your authorized Honda dealer as soon as possible to verify proper assembly. Improper assembly may lead to loss of braking capacity.



(6) Lugs

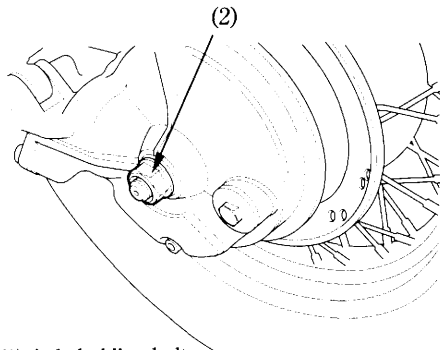
Rear Wheel Removal

1. Raise the rear wheel off the ground by using a chain hoist.
2. Remove the axle holding bolt (1).
3. Remove the axle nut (2) while holding the axle shaft (3) at the other end with a wrench.
4. Pull out the axle shaft (3).
5. Move the wheel to the right to separate it from the final drive gear case.
Remove the rear wheel.



NOTE:

- * Do not depress the brake pedal while 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.



- (1) Axle holding bolt
(2) Axle nut
(3) Axle shaft

Installation Notes:

- Reverse the removal procedure.
- Tighten and torque the following nuts and bolts :

Axle nut torque:

90 N·m (9.0 kg-m , 65 lb-ft)

Axle holding bolt torque:

27 N·m (2.7 kg-m , 20 lb-ft)

CAUTION:

- * **When installing the wheel, carefully fit the brake disc between the brake pads to avoid damaging the pads.**
- Apply the brake several times and check for free wheel rotation after the brake pedal is released.

▲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.**

BRAKE PAD WEAR

(Refer to the maintenance precautions on page 56).

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.)

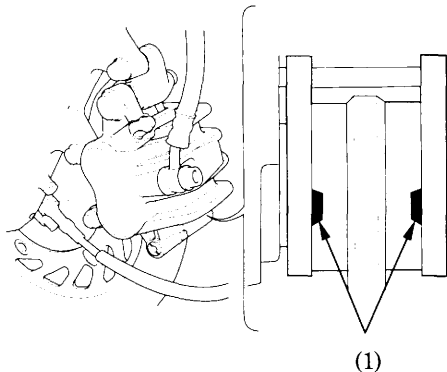
Inspect the pads at each regular maintenance interval (page 51).

Front 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 >



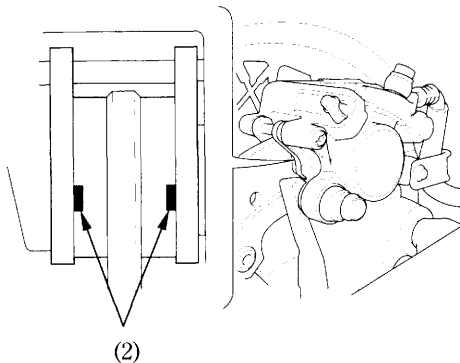
(1) Cutouts

Rear Brake

Check the cutout (2) 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.

〈 REAR BRAKE 〉



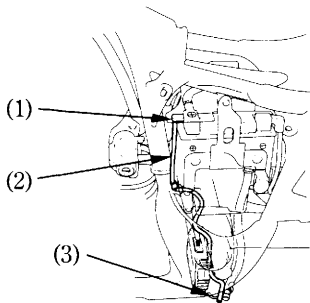
(2) Cutouts

BATTERY

(Refer to the maintenance precautions on page 56).

If the motorcycle is operated with insufficient battery electrolyte, sulfation and battery plate damage will occur.

If rapid loss of electrolyte is experienced, or if your battery seems to be weak, causing slow starting or other electrical problems, see your authorized Honda dealer.



- (1) Battery elbow
- (2) Battery breather tube
- (3) Clamp

CAUTION:

- * When checking the battery electrolyte level or adding distilled water, make sure the breather tube is connected to the battery breather outlet.
- * Use only distilled water in the battery. Tap water will shorten the service life of the battery.
- * Filling the battery above the UPPER LEVEL line may cause the electrolyte to overflow, resulting in corrosion to engine or frame parts. Immediately wash off any spilled electrolyte.
- * The battery breather tube must be routed as shown on the label. Do not bend or twist the breather tube. A bent or kinked breather tube may pressurize the battery and damage its case.

▲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 electrolyte:

The battery is behind the left side cover.

Remove the left side cover.

Check the electrolyte level with the motorcycle in an upright position on level ground. The electrolyte level must be maintained between the UPPER (1) and LOWER (2) level marks on the side of the battery.

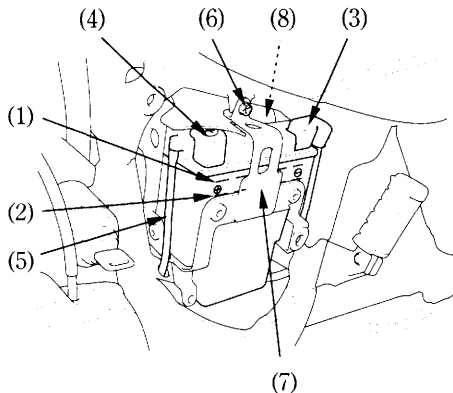
If the electrolyte level is low, disconnect the negative (−) terminal lead (3) from the battery first, then disconnect the positive (+) terminal lead (4).

Disconnect the battery breather tube (5).

Remove the bolt (6) and battery holder (7).

Pull out the battery. Remove the battery filler caps (8).

Carefully add distilled water to the UPPER level mark, using a small syringe or plastic funnel.



- (1) UPPER level
- (2) LOWER level
- (3) Negative terminal lead
- (4) Positive terminal lead
- (5) Breather tube
- (6) Bolt
- (7) Battery holder
- (8) Filler caps

FUSE REPLACEMENT

(Refer to the maintenance precautions on page 56).

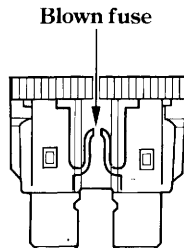
When frequent fuse failure occurs, it usually indicates a short circuit or an overload in the electrical system. See your authorized Honda dealer for repair.

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.

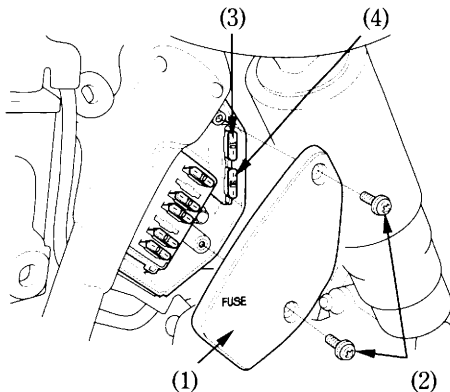


Fuse box:

The fuse box is located near the left passenger footpeg. The specified fuse is:

10A

1. Remove the fuse box cover (1) by removing the screws (2) .
2. Pull out the old fuse and install a new fuse. The spare fuse (3) is located in the fuse box.
3. Install the fuse box cover.



(1) Fuse box cover
(2) Screws

(3) Spare fuse
(4) Spare main fuse

Main fuse:

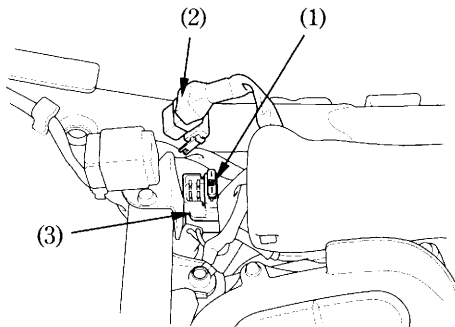
The main fuse (1) is located on the starter magnetic switch under the seat. The specified fuse is:

30A

1. Remove the seat (page 39).
2. Disconnect the wire connector (2) of the starter magnetic switch (3).
3. Pull out the fuse. If the main fuse is blown, install a new fuse.

The spare fuse is located in the fuse box.

4. Reconnect the wire connector and install the seat.



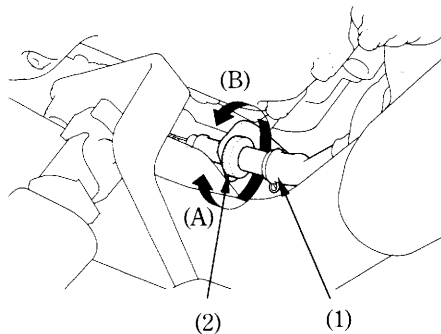
- (1) Main fuse
(2) Wire connector
(3) Starter magnetic switch

STOPLIGHT SWITCH ADJUSTMENT

(Refer to the maintenance precautions on page 56).

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 56).

▲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.

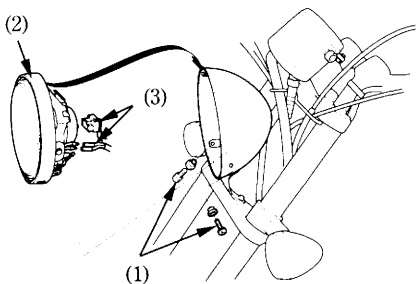
If you touch the bulb with your bare hands, clean it with a cloth moistened with alcohol to prevent its early failure.

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/Position Light Bulb

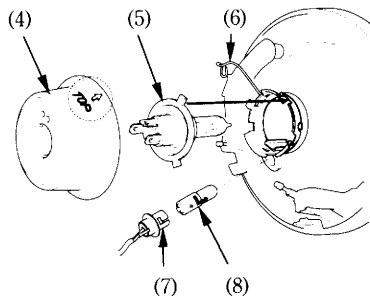
1. Remove the two screws (1) from the headlight case.
2. Gently pull the lower end of the headlight (2) forward and remove the headlight.
3. Disconnect the connectors (3).
4. — Headlight bulb:
 - Remove the seat rubber (4).
 - Remove the headlight bulb (5) while pressing down on the pin (6).



- (1) Screws
(2) Headlight

(3) Connectors

- Position light bulb:
- Pull out the socket (7).
 - Slightly press the position light bulb (8) and turn it counter clockwise.
5. Install a new bulb in the reverse order of removal.

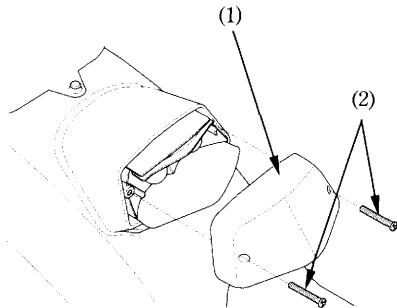


- (4) Seat rubber
(5) Headlight bulb
(6) Pin

- (7) Socket
(8) Position light bulb

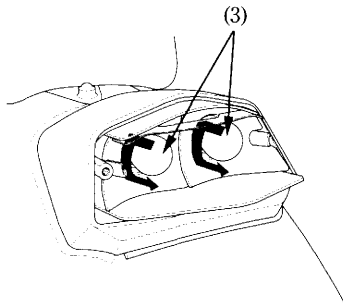
Stop/Taillight Bulb

1. Remove the taillight lens (1) by removing the two screws (2).



- (1) Taillight lens
(2) Screws

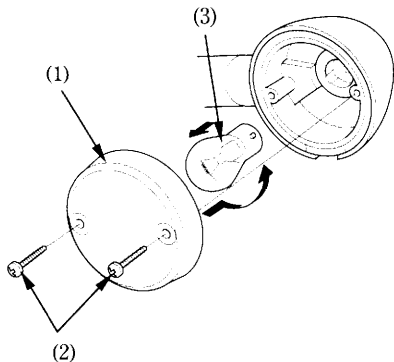
2. Slightly press the bulb (3) and turn it counterclockwise.
3. Install a new bulb in the reverse order of removal.



- (3) Bulbs

Front/Rear Turn Signal Bulb

1. Remove the turn signal 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) Turn signal lens

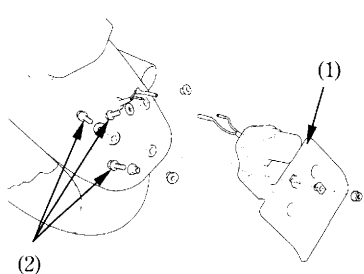
(2) Screws

(3) Bulb

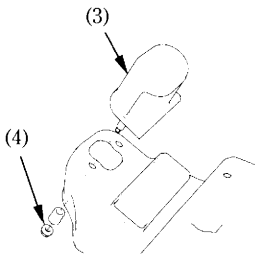
License Light Bulb

1. Remove the license plate bracket (1) by removing the three bolts (2).
2. Remove the license light assembly (3) by removing the two nuts (4).
3. Remove the license light cover (5) and license light lens (6).

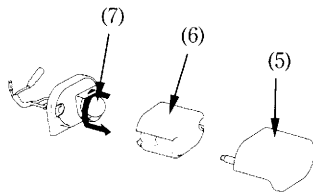
4. Slightly press the bulb (7) and turn it counterclockwise.
5. Install a new bulb in the reverse order of removal.



- (1) License plate bracket
(2) Bolts



- (3) License light assembly
(4) Nut



- (5) License light cover
(6) License light lens
(7) 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:

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

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

NOTE:

- * Clean the 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.**

2. Dry the motorcycle, start the engine, and let it run for several minutes.
3. Test the brakes before riding the motorcycle. Several applications may be necessary to restore normal braking performance.

▲WARNING

- * Braking efficiency may be temporarily impaired immediately after washing the motorcycle. Anticipate longer stopping distance to avoid a possible accident.**

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. Check the electrolyte level and slow charge the battery once a month.
6. Wash and dry the motorcycle. Wax all painted surfaces. Coat chrome with rustinhibiting oil.
7. Inflate the tyres to their recommended pressures. Place the motorcycle on blocks to raise both tyres off the ground.
8. 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. Check the battery electrolyte level and 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 40).
Test ride the motorcycle at low speeds in a safe riding area away from traffic.

SPECIFICATIONS

DIMENSIONS

Overall length	2,440 mm (96.1 in)
Overall width	965 mm (38.0 in) ...Except AR
	950 mm (37.4 in) ...AR
Overall height	1,160 mm (45.7 in)
Wheelbase	1,650 mm (65.0 in)
Ground clearance	150 mm (5.9 in)

WEIGHT

Dry weight	261 kg (575 lbs) ...Except AR, SW
	265 kg (584 lbs) ...AR, SW

CAPACITIES

Engine oil	
	(After draining)
	(After draining and oil filter change)
	(After disassembly)
Final drive gear oil	3.3 ℓ (3.5 US qt, 2.9 Imp qt)
Fuel tank	3.5 ℓ (3.7 US qt, 3.1 Imp qt)
Fuel reserve	4.2 ℓ (4.4 US qt, 3.7 Imp qt)
Cooling system capacity	150 cc (5.1 US oz, 5.3 Imp oz)
Passenger capacity	15 ℓ (4.0 US gal, 3.3 Imp gal)
Maximum weight capacity	3.5 ℓ (0.92 US gal, 0.77 Imp gal)
	2.0 ℓ (0.53 US gal, 0.44 Imp gal)
	Operator and one passenger
	185 kg (408 lbs) ...Except AR, SW
	181 kg (399 lbs) ...AR, SW

ENGINE

Bore and stroke	87.5 × 91.4 mm (3.44 × 3.60 in)
Compression ratio	8.0 : 1
Displacement	1,099 cm ³ (67.0 cu-in)
Spark plug	
Standard	DPR7EA-9 (NGK) or X22EPR-U9 (NIPPONDENSO)
For cold climate (Below 5°C, 41°F)	DPR6EA-9 (NGK) or X20EPR-U9 (NIPPONDENSO)
For extended high speed riding	DPR8EA-9 (NGK) or X24EPR-U9 (NIPPONDENSO)
Spark plug gap	0.80-0.90 mm (0.031-0.035 in)
Idle speed	1,000 ± 100 min ⁻¹ (rpm) ...Except AR, SW 1,100 ± 50 min ⁻¹ (rpm) ...SW 1,100 ± 100 min ⁻¹ (rpm) ...AR

CHASSIS AND SUSPENSION

Caster	32° 15'
Trail	155 mm (6.1 in)
Tyre size, front	120/90-18 65H
Tyre size, rear	170/80-15 M/C 77H

POWER TRANSMISSION

Primary reduction	1.692
Gear ratio	
1st	2.375
2nd	1.391
3rd	1.037
4th	0.888
5th	0.766
Final reduction	3.091

ELECTRICAL

Battery	12V — 16AH
Generator	0.329 kW/5,000 min ⁻¹ (rpm)

LIGHTS

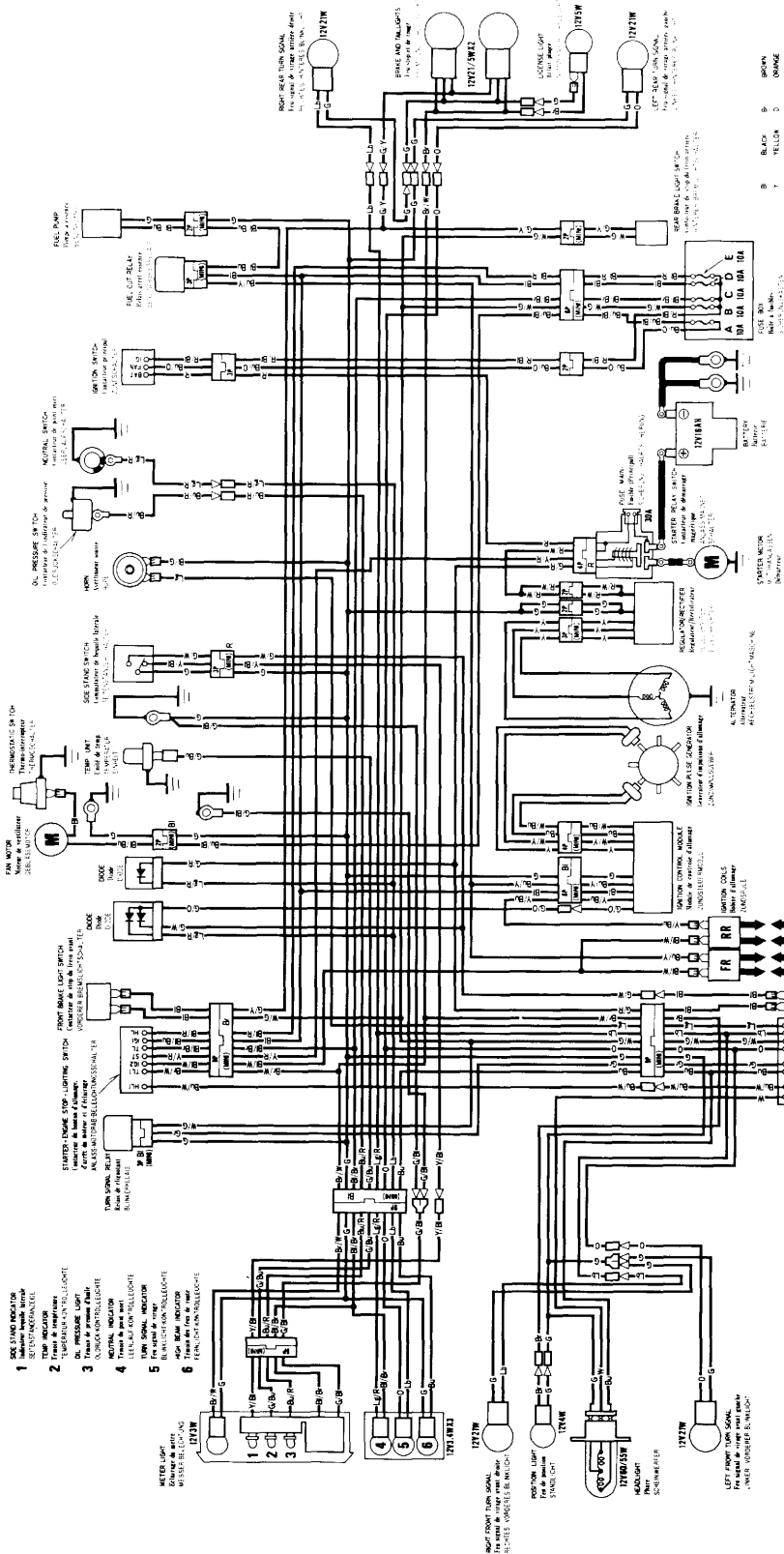
Headlight		12V – 60/55W
Tail/brake light		12V – 5/21W × 2
Turn signal light	Front	12V – 21W
	Rear	12V – 21W
Instrument lights		12V – 3W
Neutral indicator		12V – 3.4W
Turn signal indicator		12V – 3.4W
High beam indicator		12V – 3.4W
Position light		12V – 4W ...Except U
License light		12V – 5W

FUSE

Main fuse	30A
Other fuses	10A

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.

[illegible]

SWITCH CONTINUITY
Kontinuität des Schaltstromes
ANORDNUNG DER SCHW. TER.

TUON SIGNAL SWITCH
L'antenneur de signal
BALNEILICH SIGNAL TYP

CHAMBER SWITCH	Hi			
Reduction & Retention	Lo			
ABUNDANCE OF CHAMBERS	ML2			
	Lo			
	(N)			
	Hi			

	H01	H02
FREE		
PUSH		

IG1	IG2	
OFF	RUN	

STARTER SWITCH
Restes de reball
AN: A310-046, "C"

	IG2 ST		
/			
	FREE		
	PUSH		

	HL	HLI	TL	TLI
OFF				
P				
N				
HL				

A FAN MOTOR
Moteur de ventilateur
VERBODEN TOEGANG
TOEGANG VERBODEN

B "TURN SIGNAL" = FRONT, REAR BRAKE = HORN
Signal de virage = Stop de frein arrière, klaxon = klaxon

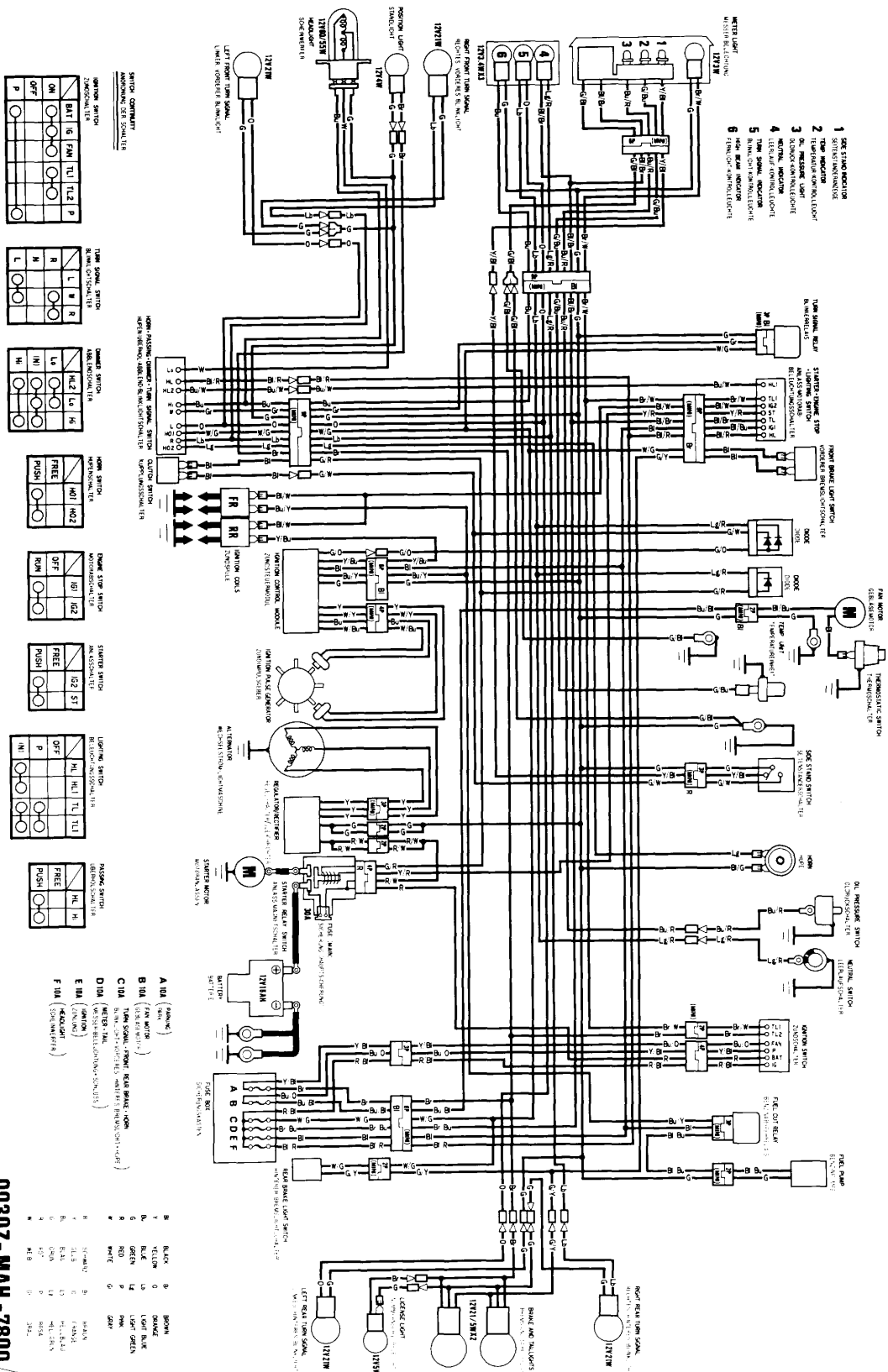
C

METER • TAIL
Échelle de mètre • Règle
01 58 R 62-2076f, A9, S¹, 200, 255

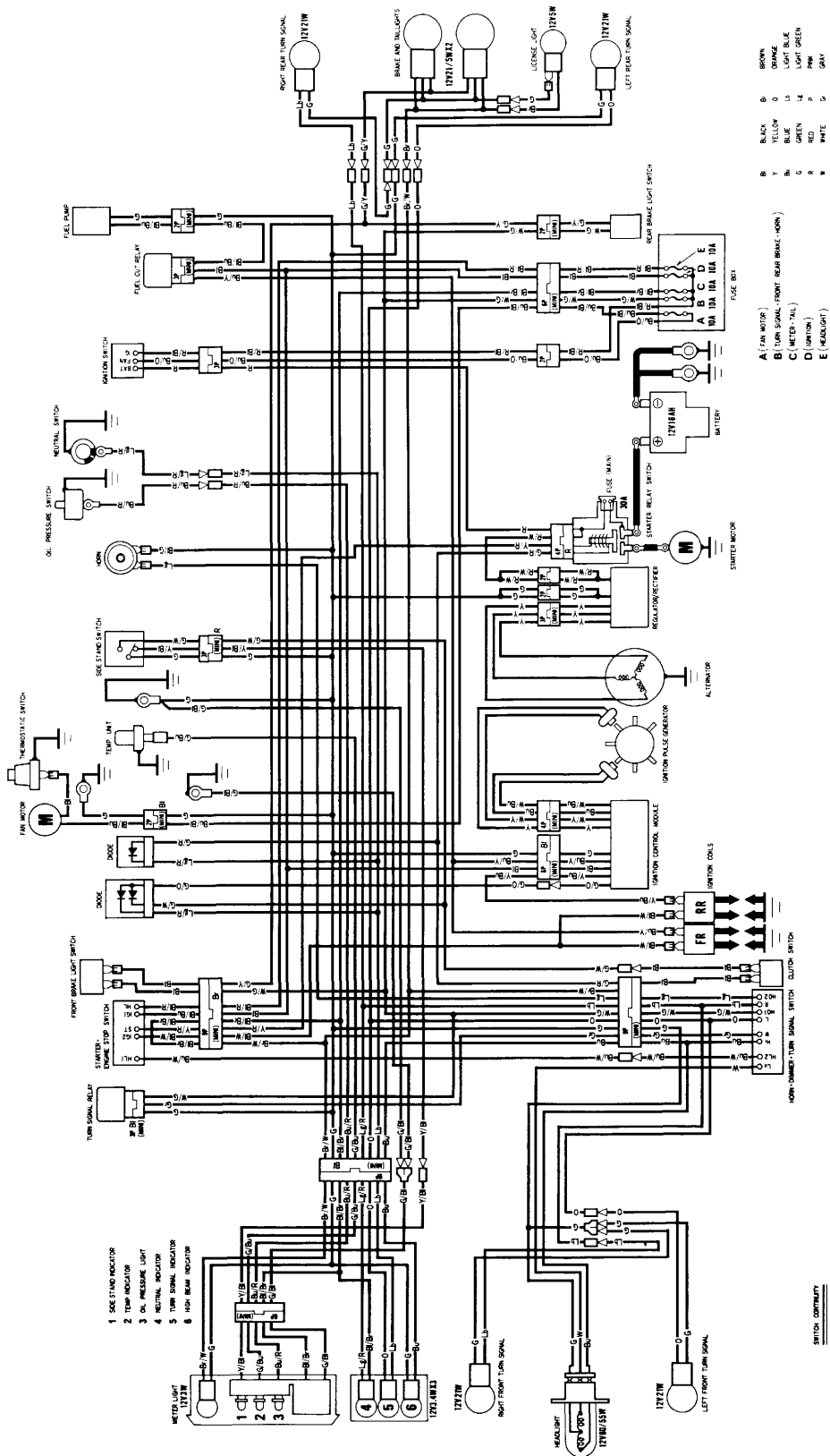
D (CAUTION: Voltage $> 100\text{V AC}$)

[illegible]

VT1100C2 (AR)



VT1100C2 (U)



SWITCH CONTINUITY

IGNITION SWITCH		BAT	IG	FAN		
		ON	OFF			

TURN SIGNAL SWITCH	R		
	W		
	L		
		R	N

	HL2	Lo	Hi
Lo			
(N)			
Hi			

FREE	H01	H02
PUSH		

ENGINE STOP SWITCH	IG1	IG2		
	OFF			

STARTER SWITCH	IG2	ST	HL	HLI
FREE				
PUSH				

A (AN MOTOR)	B	BLACK	B	BROWN
B (TURN SIGNAL FRONT REAR BRAKE - HORN)	Y	YELLOW	O	ORANGE
C (METER - TAIL)	Bu	BLUE	Ls	LIGHT BLUE
D (LIGHT)	Gn	GREEN	Lg	LIGHT GREEN
E (HEADLIGHT)	R	RED	P	PINK
	W	WHITE	G	GRAY

0030Z-MAH-6800

