ENGLISH

Utility Vehicle
Owner's Manual

Quick Reference Guide

This Quick Reference Guide will assist you in finding the information you're looking for.

GENERAL INFORMATION

HOW TO OPERATE

SAFE OPERATION

MAINTENANCE AND ADJUSTMENT

STORAGE

TROUBLESHOOTING GUIDE

A Table of Contents is included after the Foreword.

Whenever you see the symbols shown below, heed their instructions! Always follow safe operating and maintenance practices.

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

NOTE

○ *This note symbol indicates points of particular interest for more efficient and convenient operation.*

NOTE

○ *This general OM contains following models. Please refer to where applicable to your MULE.*

KAF400A	MULE610 4 × 4
KAF400B	MULE600
KAF950F	MULE4010 DIESEL 4 × 4
KAF950G	MULE4010 TRANS 4 × 4 DIESEL

FOREWORD

Congratulations on your purchase of a new Kawasaki Mule. It is the result of Kawasaki's engineering expertise and a tradition of manufacturing high-quality consumer products.

Please read this Owner's Manual carefully before starting your new Mule so that you will be thoroughly familiar with the proper operation of your vehicle's controls, its features, capabilities, and limitations.

To ensure a long, trouble-free life for your Mule, give it the proper care and maintenance described in this manual.

For those who would like more detailed information on their Mule, a Service Manual is available for purchase from any authorized Kawasaki Mule dealer. The Service Manual contains detailed disassembly and maintenance information. Those who plan to do their own work should, of course, be competent mechanics and possess the special tools described in the Service Manual.

Keep this Owner's Manual aboard your Mule at all times so that you can refer to it whenever you need information.

This manual should be considered a permanent part of the Mule and should remain with the Mule when it is sold.

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This General Owner's Manual offers only the standard descriptions from various models so some descriptions shown may not apply to your particular model. For detailed information of your Mule (Mule handling, maintenance, service and technical data) refer to the Engine Owner's Manual. If not available, consult an authorized Kawasaki dealer.

This publication includes the latest information available at the time of printing. However, there may be minor differences between the actual product and illustrations and text in this manual.

All products are subject to change without prior notice or obligation.

KAWASAKI HEAVY INDUSTRIES, LTD.
Consumer Products & Machinery Company

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BASIC SAFE DRIVING

Knowing and following these rules for safe operation will increase your satisfaction with your new Kawasaki vehicle.

Perform the Daily Safety Checks

Refer to the Daily Safety Checks section for a list of items to check each day before use. Habitual performance of these checks will help to insure safer, more reliable usage. Be sure that any irregularities found during these checks are corrected before operating the vehicle.

Drive Carefully and with Good Judgement

We want you to be satisfied with your new Kawasaki vehicle, so drive carefully, safely, and exercise good judgement. Practice basic maneuvers so you can drive confidently and safely.

Read the Owner's Manual

Read and understand this Owner's Manual. This is especially important for inexperienced drivers. Refer to this Owner's Manual if you have any questions.

Off-Highway Use Only

This vehicle is not an all-terrain vehicle; it is designed and equipped to be a multiuse utility vehicle for off-highway use only. Operation on paved surfaces is not recommended.

Operator's Capacity

All operators should possess a valid driver's license. Children may not have the skills and judgement necessary to operate this vehicle safely.

Never Drink and Drive

Alcohol and drugs impair your judgement and slow your reactions. Even drugs prescribed by a physician can be dangerous. Check with your doctor.

Dress Properly

As appropriate to operating conditions wear an approved helmet, eye protection, and protective clothing. Proper clothing can make driving more comfortable and reduce the severity of injury in the event of an accident.

Wearing Seat Belt

Both the operator and passenger should wear the seat belts whenever the vehicle is operated. This will reduce the severity of injury in case of a sudden stop or collision.

Also, to reduce chance of injury, always keep arms and legs inside the cab frame while the vehicle is in motion.

Before Starting the Engine

Three "musts" before starting the engine are:

1. Apply the parking brake,
2. Put the gear shift lever in the "N" (neutral) position,
3. Check the throttle pedal for proper operation. It should return to its rest position when released.

Use the Parking Brake

Always apply the parking brake before getting out of your vehicle.

Obey Local Laws

Know and obey all laws and regulations governing the use of off-highway vehicles in your area. Respect private property. Always try to preserve nature and the environment.

Refueling

Before refueling the vehicle, shut the engine off and make sure the area is well ventilated and free of any source of flame or sparks. Gasoline (for KAF400) and diesel fuel (for KAF950) are very flammable.

Tire Air Pressure

Tire inflation and type can affect the vehicle's handling characteristics. Check the tire pressure frequently. Use only the recommended tires for replacement.

Cab Frame

The cab frame is an approved Roll Over protection Structure as defined within the Machinery Directive.

If the cab frame becomes damaged, it will no longer meet the requirements of the Machinery Directive.

Therefore, it must not be repaired and should be replaced by an authorized Kawasaki Dealer.

SPECIFICATIONS

PERFORMANCE		
Maximum Torque		
Minimum Turning Radius		
Differential Mode:		
DIMENSIONS		
Overall Length		
Overall Width		
Overall Height		
Wheelbase		
Track:	Front	
	Rear	
Ground Clearance		
Curb Mass		
Cargo Bed (L × W × H)		
ENGINE		
Type		
Displacement		
Bore x Stroke		
Compression Ratio		
Starting System		
Cylinder Numbering Method		
Firing Order		

Carburetor (for KAF400)		
Ignition System (do.)		
Ignition Timing (do.)		
Spark Plug (do.)		
Injection Pump (for KAF950)		
Lubrication System		
Engine Oil	Type:	
	Capacity:	
Coolant Capacity		

DRIVE TRAIN

Driving Type		
Transmission Type		
Primary Reduction Ratio		
Final Reduction Ratio		
Overall Drive Ratio:	Forward	
	Reverse	
Transmission Gear Ratio:	Forward	
	Reverse	
Front Final Gear Case Oil (for KAF950)		
Front Final Gear Case Oil Capacity (do.)		
Transmission Case Oil		
Transmission Case Oil Capacity		

14 SPECIFICATIONS

FRAME	
Type	
Steering (for KAF950)	
Castor	
Trail	
Tire Size:	Front & Rear
Fuel Tank Capacity	
ELECTRICAL EQUIPMENT	
Battery	
Headlight	
Tail/Brake Light	
Reverse Light	
LOAD CAPACITY	
Maximum Vehicle Load (Including occupants and cargo)	
Maximum Cargo Bed Load	

Specifications subject to change without notice.

DECLARATION OF CONFORMITY

MANUFACTURERS
DECLARATION OF CONFORMITY
For

Product identification

Product : Utility Vehicle
Brand : KAWASAKI
Model/type :

Starting frame number in range:

Manufacturer / TCF: KAWASAKI HEAVY INDUSTRIES, LTD.
1-1 Kawasaki-cho
673-8666 Akashi, Hyogo Pref.
Japan

EU Representative: Kawasaki Motors Europe N.V.
Diamantlaan 14
2132 WV Hoofddorp
The Netherlands

BB01018B S

Means of conformity

1. The product is in conformity with the Electro Magnetic Compatibility Directive 2004/108/EC, based on the following harmonized standards applied:

   EN55012:2002+A1:2005
   Vehicles, boats, and internal combustion engine driven devices –
   Radio disturbance characteristics –
   Limits and methods of measurement for the protection of receivers except those installed in the vehicle/boat/device itself or in adjacent vehicles/boats/devices

   EN61000-6-2:2005
   Electromagnetic compatibility (EMC) –
   Part 6-2: Generic standards - Immunity for industrial environments

2. The product is in conformity with the Machinery Directive 98/37/EC as last amended by directive 2006/42/EC.

Signature of representative:

Sosuke Kinouchi
Executive Officer, General Manager of Quality Assurance Division
Consumer Products & Machinery Company
Kawasaki Heavy Industries, Ltd.

Place: Akashi, Hyogo Pref., Japan
Date:

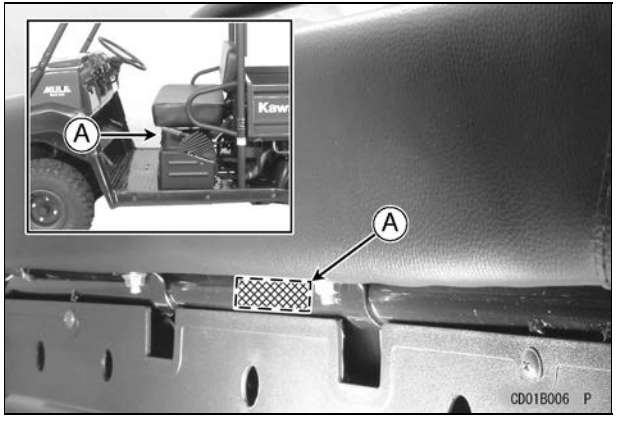
Part No.

BB01020B S

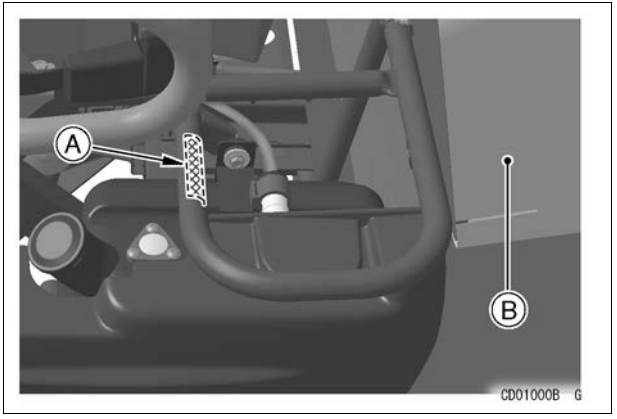
SERIAL NUMBER LOCATIONS

The engine and frame serial numbers are used to register the vehicle. They are the only means of identifying your particular machine from others of the same model type. These serial numbers may be needed by your dealer when ordering parts. In the event of theft, the investigating authorities will require both numbers as well as the model type and any peculiar features of your machine that can help them identify it.

Frame No.

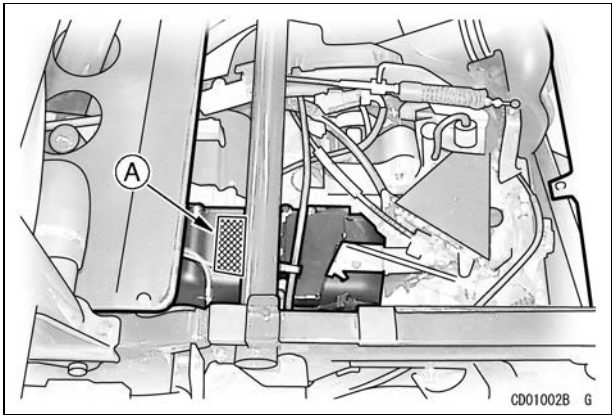


A. Frame Number (for KAF950)



A. Frame Number (for KAF400)
B. Seat (Raised Position)

Engine No.



A. Engine Number (for KAF400)

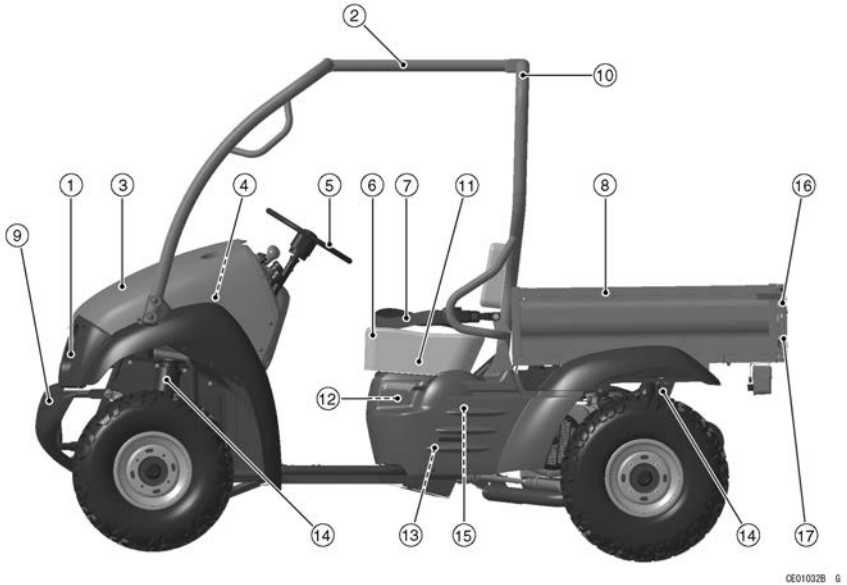


A. Engine Number (for KAF950)

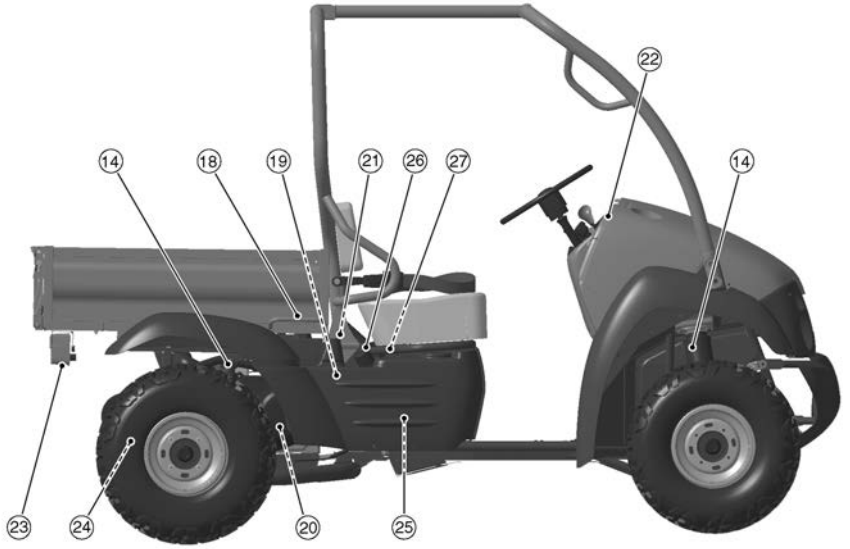
LOCATION OF PARTS

(for KAF400)

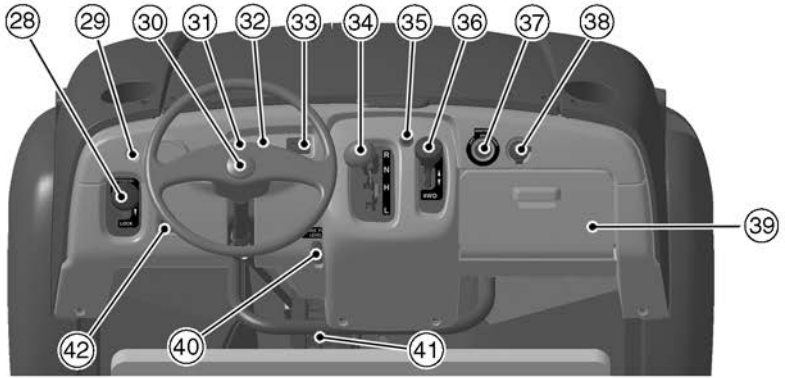
1. Headlights
2. Cab Frame
3. Front Cargo Hood
4. Front Cargo Compartment
5. Steering Wheel
6. Seat
7. Set Belts
8. Cargo Bed
9. Grille (Front Bumper)
10. Air Cleaner Intake
11. Parking Brake
12. Air Cleaner (Carburetor)
13. Battery
14. Suspensions
15. Carburetor
16. Latch
17. Tail Gate



18. Handgrip
19. Air Cleaner (Belt Drive Torque Converter)
20. Belt Drive Torque Converter
21. Latch
22. Dashboard
23. Tail/Brake Light
24. Muffler
25. Fuel Tank
26. Fuel Tank Cap
27. Fuel Gauge



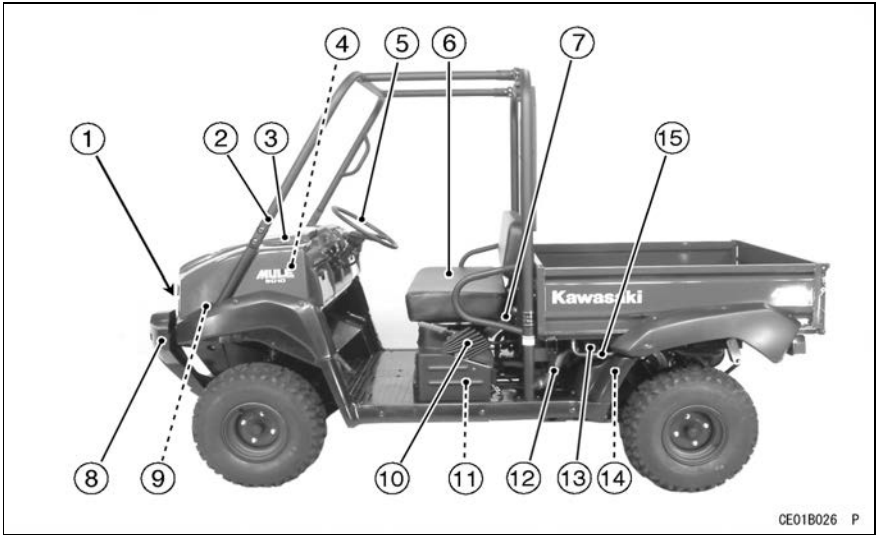
CE01001B G



CE01002B G

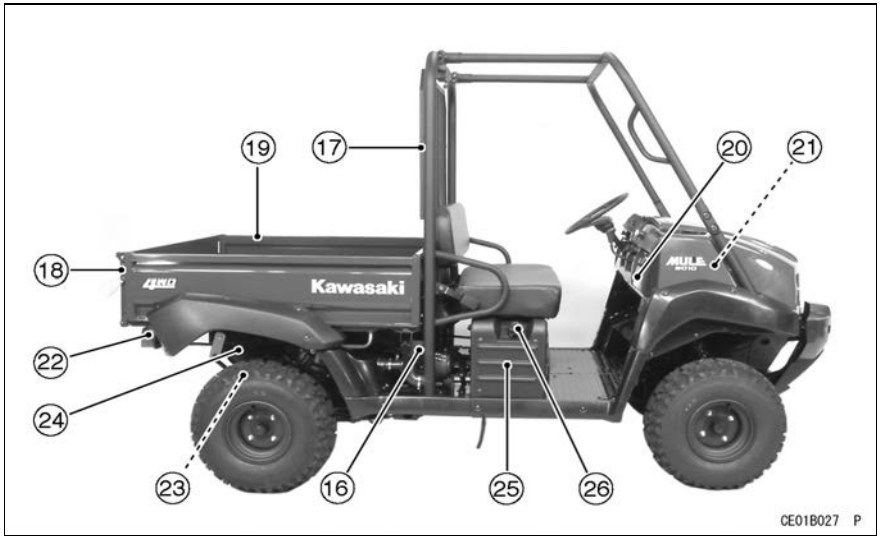
28. Differential Shift Lever
29. Choke Knob
30. Horn Button
31. Engine Oil Temperature Warning Light
32. Paring Brake Warning Light
33. Hour Meter
34. Gear Shift Lever
35. Front Cargo Latch
36. 2WD-4WD Shift Lever (KA-F400A)
37. Ignition Switch
38. Accessory Connector
39. Glove Compartment
40. Brake fluid Level
41. Brake Light Switch
42. Light Switch

(for KAF950F)

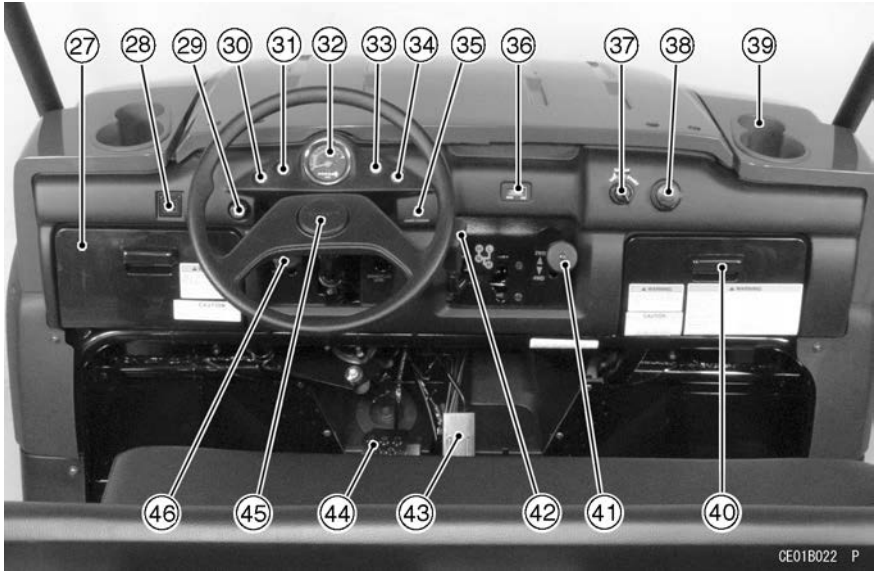


1. Headlights
2. Cab Frame
3. Front Cargo Hood
4. Front Cargo Compartment
5. Steering Wheel
6. Seat
7. Seat Belts
8. Front Bumper
9. Radiator
10. Parking Brake
11. Battery
12. Latch
13. Air Cleaner (Belt Drive Torque Converter)
14. Belt Drive Torque Converter
15. Handgrip

24 LOCATION OF PARTS



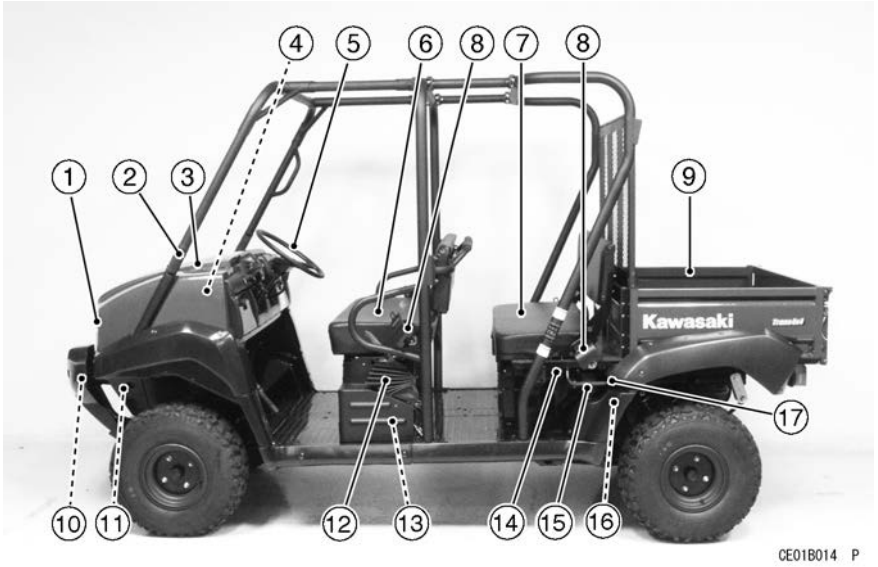
16. Air Cleaner (Engine)
17. Screen
18. Tail Gate
19. Cargo Bed
20. Dashboard
21. Coolant Reserve Tank
22. Tail/Brake Lights
23. Trailer Hitch Bracket
24. Muffler (Spark Arrester)
25. Fuel Tank
26. Fuel Tank Cap



27. Left Glove Compartment
28. Light Switch
29. Front Cargo Hood Knob
30. Oil Pressure Warning Light
31. Coolant Temperature Warning Light
32. Speedometer
33. Parking Brake Warning Light
34. Glow Plug Light
35. Power Steering Warning Light
36. Hour Meter
37. Main Switch
38. Power Outlet
39. Bottle Holder
40. Right Glove Compartment
41. 2WD-4WD Shift Lever
42. Gear Shift Lever
43. Throttle Pedal
44. Brake Pedal
45. Horn Button
46. Differential Shift Lever

26 LOCATION OF PARTS

(For KAF950G Four-person mode)



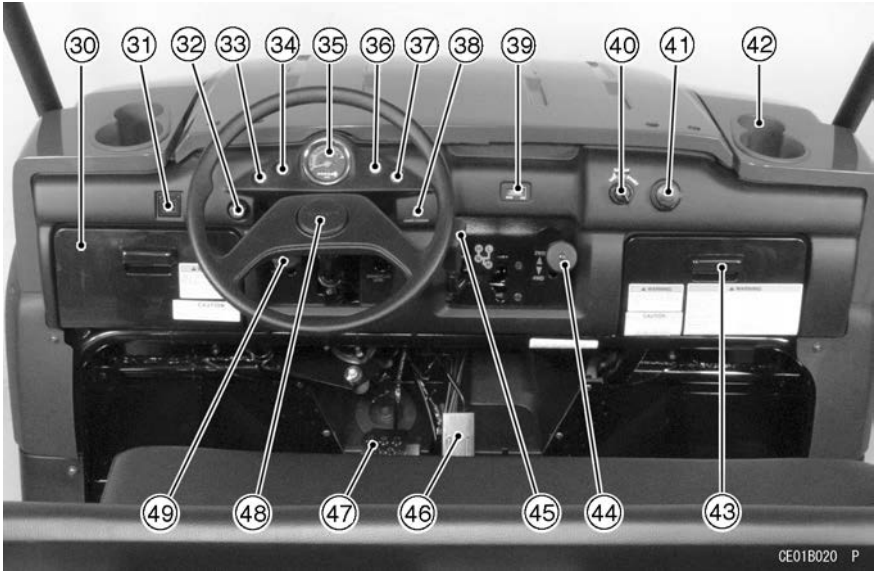
1. Headlights
2. Cab Frame
3. Front Cargo Hood
4. Front Cargo Compartment
5. Steering Wheel
6. Front Seat
7. Rear Seat
8. Seat Belts
9. Cargo Bed
10. Front Bumper
11. Radiator
12. Parking Brake
13. Battery
14. Latch
15. Air Cleaner (Belt Drive Torque Converter)
16. Belt Drive Torque Converter
17. Handgrip

(Two-person mode)



18. Screen
19. Latch Handle
20. Tail Gate
21. Dashboard
22. Tail/Brake Lights
23. Muffler (Spark Arrester)
24. Trailer Hitch Bracket
25. Fuel Tank
26. Fuel Tank Cap
27. Fuel Gauge
28. Rear Seat (folded)
29. Air Cleaner

28 LOCATION OF PARTS



30. Left Glove Compartment
31. Light Switch
32. Front Cargo Hood Knob
33. Oil Pressure Warning Light
34. Coolant Temperature Warning Light
35. Speedometer
36. Parking Brake Warning Light
37. Glow Plug Light
38. Power Steering Warning Light
39. Hour Meter
40. Main Switch
41. Power Outlet
42. Bottle Holder
43. Right Glove Compartment
44. 2WD-4WD Shift Lever
45. Gear Shift Lever
46. Throttle Pedal
47. Brake Pedal
48. Horn Button
49. Differential Shift Lever

LOCATION OF LABELS

Some labels are not applicable to all models, and their location may also vary depending on models. Please note that illustrations of models and labels used here are for representation purposes only.

For information specific to your model, refer to the English Owner's Manual or contact an authorized Kawasaki dealer or the distributor.

NOTE

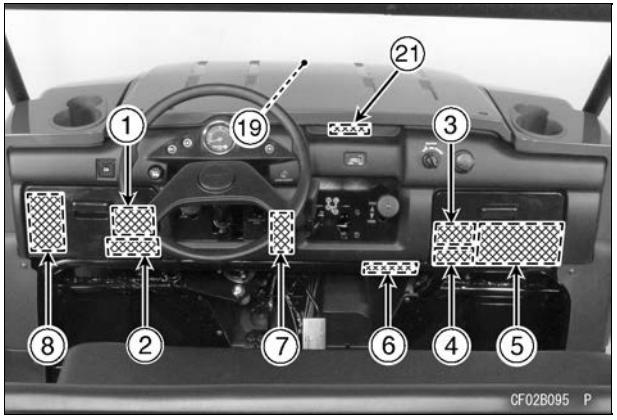
○ *Labels and their locations listed hereafter are for KAF950 for example use only. See your own OM in English for relevant information.*

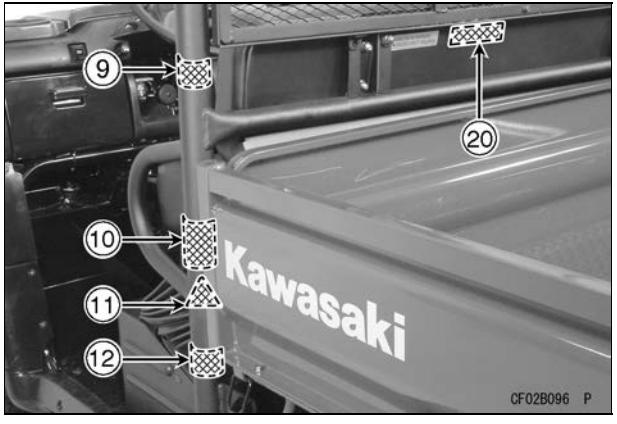
All warning labels which are on your Mule are repeated here. Read them and understand them thoroughly. They contain information which is important for your safety and the safety of anyone else who may operate your Mule. Therefore, it is very important that all warning labels be on your Mule in the locations shown. If any label is missing, damaged, or worn, get a replacement from your Kawasaki dealer and install it in the correct position.

NOTE

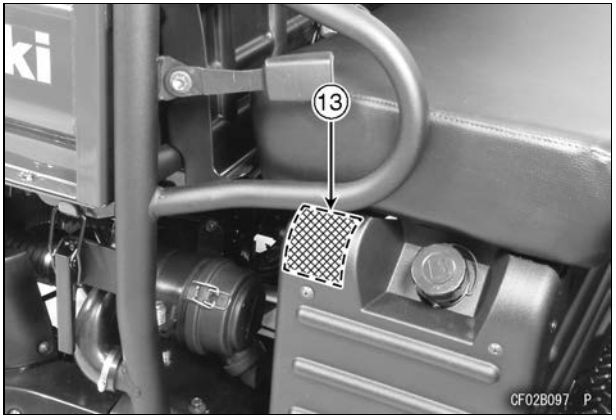
○ *The sample warning labels in this section have part numbers to help you and your dealer obtain the correct replacement.*

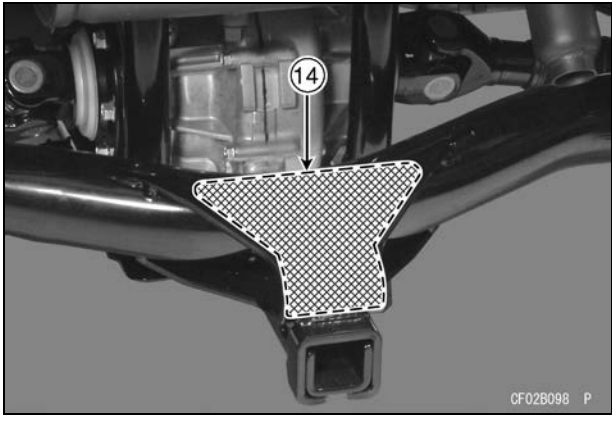
30 LOCATION OF LABELS

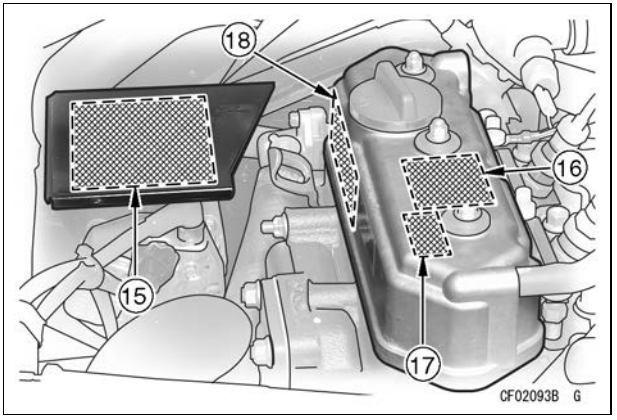




1. Warning (Off-Highway Utility Vehicle)
2. Notice (Shifting)
3. Warning (Front Cargo Hood)
4. Notice (Downhill Speed)
5. Warning (General)
6. Specification
7. Specification (CE mark)
8. Warning (Owner's Manual)
9. Cab Frame Information
10. Important Information (Tires/Max. Load)
11. Warning (Pinching)
12. Warning (Cargo Bed)
19. Danger (Radiator)
20. Warning (Passenger's in Cargo Bed)
21. Information (Front Hood)



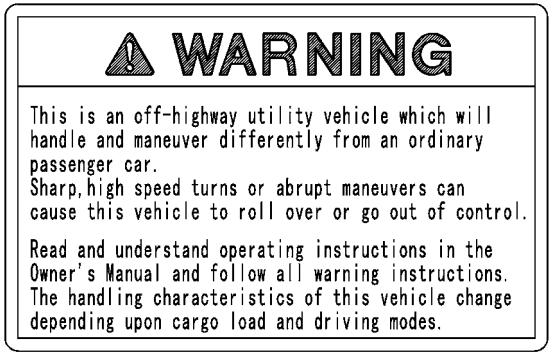




13. Warning (Refueling)
14. Warning (Towing Bracket)
15. Warning (Hot Surfaces)
16. Notice (Engine Oil Fill)
17. Notice (Engine Oil Level)
18. Important Engine Information

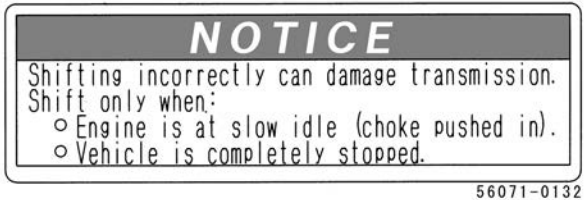
32 LOCATION OF LABELS

(1)



56070-0050
CF03052BM2 C

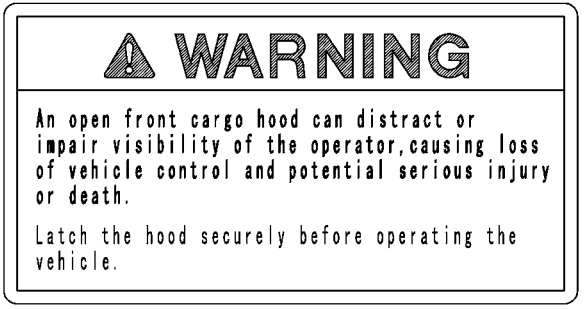
(2)



56071-0132

CF03369B S

(3)



56070-0053

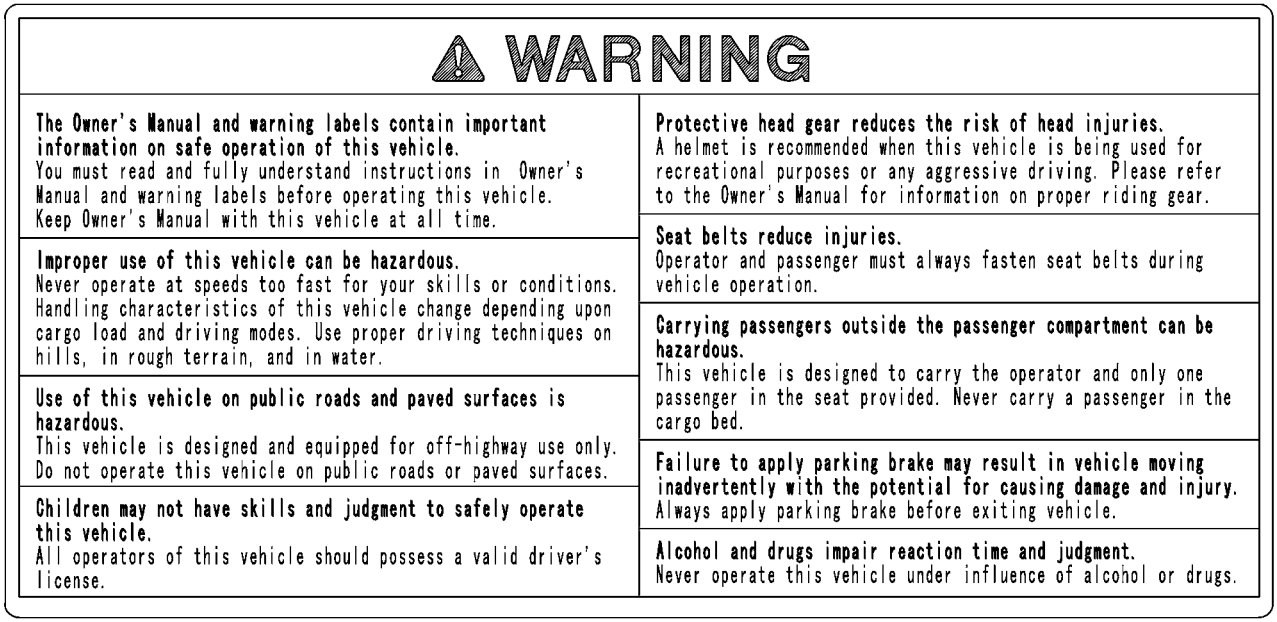
CF03051BM2 C

(4)



56071-0140
CF03342B S

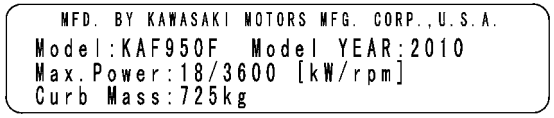
(5)


⚠ WARNING
The Owner's Manual and warning labels contain important information on safe operation of this vehicle.
You must read and fully understand instructions in Owner's Manual and warning labels before operating this vehicle.
Keep Owner's Manual with this vehicle at all time.
Improper use of this vehicle can be hazardous.
Never operate at speeds too fast for your skills or conditions. Handling characteristics of this vehicle change depending upon cargo load and driving modes. Use proper driving techniques on hills, in rough terrain, and in water.
Use of this vehicle on public roads and paved surfaces is hazardous.
This vehicle is designed and equipped for off-highway use only. Do not operate this vehicle on public roads or paved surfaces.
Children may not have skills and judgment to safely operate this vehicle.
All operators of this vehicle should possess a valid driver's license.
Protective head gear reduces the risk of head injuries.
A helmet is recommended when this vehicle is being used for recreational purposes or any aggressive driving. Please refer to the Owner's Manual for information on proper riding gear.
Seat belts reduce injuries.
Operator and passenger must always fasten seat belts during vehicle operation.
Carrying passengers outside the passenger compartment can be hazardous.
This vehicle is designed to carry the operator and only one passenger in the seat provided. Never carry a passenger in the cargo bed.
Failure to apply parking brake may result in vehicle moving inadvertently with the potential for causing damage and injury.
Always apply parking brake before exiting vehicle.
Alcohol and drugs impair reaction time and judgment.
Never operate this vehicle under influence of alcohol or drugs.

56071-0101

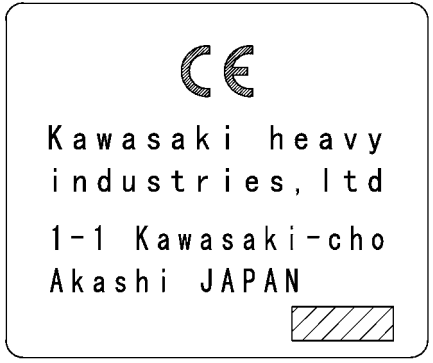
34 LOCATION OF LABELS

(6)



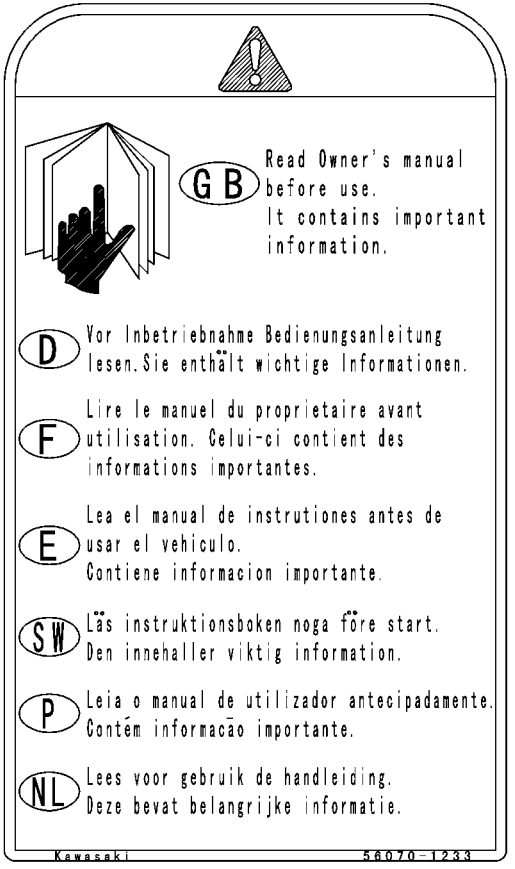
56053-0401
CF03343BN6 C

(7)



56053-0221
CF03160BM2 C

(8)



CF03022BN5 C

(9)

KAWASAKI HEAVY INDUSTRIES, LTD.
Cab Frame for Model Type
KAF950F
Notified Body No. 0359

59464-1354 CF03243BN6 C

(10)

IMPORTANT INFORMATION

- Tires
  Front: 23X11.00-10
  Rear : 23X11.00-10
- Cold Tire Pressure
  Front: 69kPa(10psi)
  Rear : 167kPa(24psi)
- Max. Vehicle Load; 740kgf(1630lbs) including occupants and cargo.

56053-7524 CF03142BM2 C

(11)



56071-7518 CF03242BM2 C

(12)

⚠ WARNING

Driving with the bed raised is hazardous.

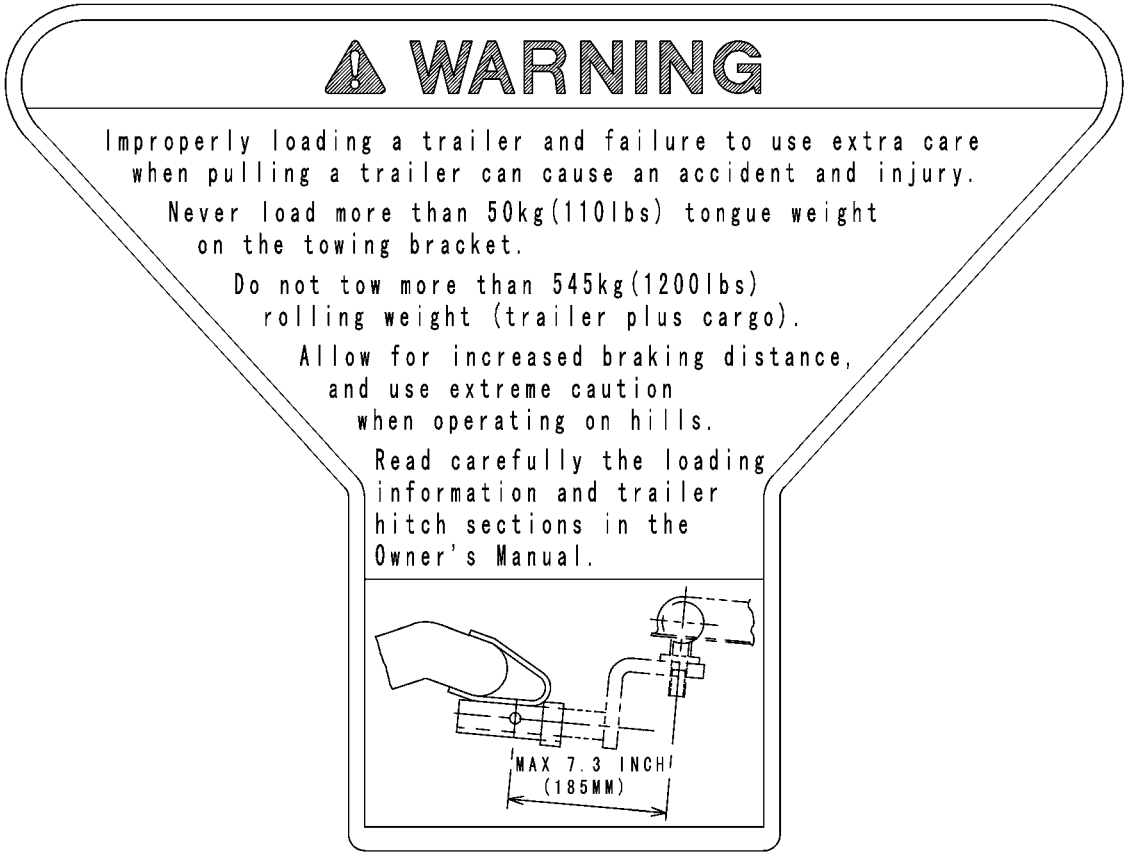
Always lower and latch bed before driving.

56070-7515

CF03101BM2 C

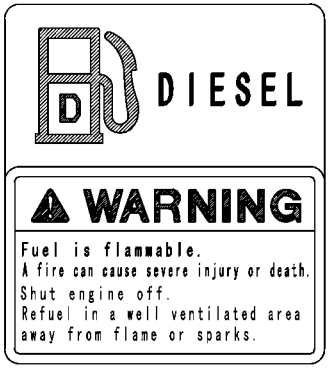
36 LOCATION OF LABELS

(14)



56071-7511
CF03176BN4 C

(13)



56070-7516

CF03102BM2 C

(15)



56070-0051

CF03347BM2 C

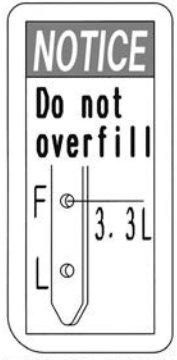
(16)



56033-0297

CF03344B S

(17)



56033-0298

CF03345B S

38 LOCATION OF LABELS

(18)

EMISSION CONTROL INFORMATION

Kawasaki

KAWASAKI HEAVY INDUSTRIES,LTD.

ENGINE FAMILY NAME : 9DHXL9532D1
POWER CATEGORY : 8≦kW<19
ENGINE DISPLACEMENT: 0.953L
FUEL REQUIREMENT :LOW SULFUR FUEL OR ULTRA LOW SULFUR FUEL ONLY

THIS ENGINE COMPLIES WITH U.S. EPA AND CALIFORNIA REGULATIONS FOR 2009 MODEL YEAR NONROAD DIESEL ENGINES. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.

CF03359BM5 C

(19)



CF03130B G

(20)

⚠ WARNING

Overloading or improper use of the cargo bed can cause changes in handling which can lead to an accident.

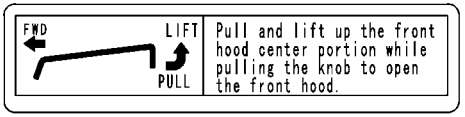
- Do not install passenger seats in the cargo bed.
- Cargo Only, no passengers.
- Don't overload; cargo bed capacity:499kg(1100lbs)

Read your Owner's Manual for additional loading information.

56071-0144

CF03348BM2 C

(21)



56030-0267

CFO3377BN6 C

LOADING INFORMATION

⚠ WARNING

Incorrect loading, improper installation or use of accessories, or modification of your vehicle may result in an unsafe operating condition. Before you operate it, make sure that the vehicle is not overloaded and that you have followed these instructions.

With the exception of genuine Kawasaki Parts and Accessories, Kawasaki has no control over the design or application of accessories. In some cases, improper installation or use of accessories, or vehicle modifications, will void the utility vehicle warranty. In selecting and using accessories, and in loading the vehicle, you are personally responsible for your own safety and the safety of other persons involved.

NOTE

○ *Kawasaki Parts and Accessories have been specially designed for use on Kawasaki utility vehicles. We strongly recommend that all parts and accessories you add to your vehicle be genuine Kawasaki components.*

Because any vehicle is sensitive to increases in weight and changes in weight distribution, you must take care in carrying cargo. The following general guidelines have been prepared to help you make your determinations.

- Reduce speed when carrying cargo. Braking distance is increased. Use extreme caution when climbing and descending hills, and traversing slopes. Carrying cargo and pulling a trailer can make the vehicle difficult to steer and may affect vehicle handling in an unpredictable manner.
- Do not operate this vehicle faster than 16 km/h when pulling a trailer.
- All cargo should be carried as low as possible to reduce the effect on the vehicle's center of gravity. Cargo weight should be equally distributed from side to side. This helps maintain stability by centralizing weight. Avoid carrying cargo that extends beyond the rear of the vehicle. Do not carry cargo on top of the cab frame.
- Do not carry more than kg in the cargo bed.
- Cargo should be securely anchored. Make sure the cargo will not move around while the vehicle is moving. Recheck cargo security as often as possible (while the vehicle is stopped) and adjust as necessary.

NOTICE

The front body work and fenders are not designed to carry cargo or to support your weight. They may break.

- Always subtract trailer tongue weight from the Maximum Load capacity. Refer to the "Trailer Hitch Bracket" section in the "General Information" chapter.

Maximum Load

Weight of operator, passenger, and cargo must not exceed kg

NOTE

- *Maximum Load and cargo weight for your Mule are show in your English OM titled "LOADING INFORMATION" chapter. Refer to the relevant page and copy the data value into the space provided in this page.*

- This vehicle is not designed to carry passengers in the cargo bed. Installing additional passenger seating or carrying passengers in the cargo bed can cause changes in vehicle handling.

⚠ WARNING

Passengers riding in the cargo bed can be tossed about or even thrown out causing serious injury or death. Do not install seating or carry passengers in the cargo bed.

GENERAL INFORMATION

Cold Weather Information

(for KAF950 only)

Fuel

For most year - round service, number 2-D diesel fuel meeting ASTM specification D-975 will provide good performance.

At temperatures below −7°C (20°F), number 2-D grade diesel fuel thickens enough to clog the fuel filter. This is usually caused by naturally-occurring paraffin in diesel fuel turning to wax as it gets colder.

If the engine starts but stalls after a short time and will not restart, the fuel filter may be clogged. For best results in cold weather use climatized number 2-D diesel fuel or dilute the number 2-D diesel fuel with 50% number 1-D diesel fuel. This will provide better protection from fuel gelling or wax plugging the fuel filters.

When using the vehicle at temperatures below −20°C (−4°F), consult your dealer about the best fuel to use.

⚠ WARNING

Starting fluids such as ether are explosive and may cause severe injury. Do not use starting fluids containing ether in the air intake system.

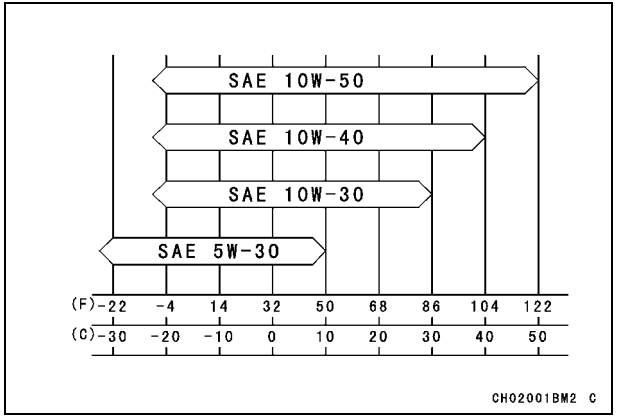
NOTE

○ *Do not add gasoline, gasohol, alcohol, or aftermarket cetane improver additives to diesel fuel. Damage to the fuel injection system may result.*

Engine Oil

Use only oils conforming to API Service CF or CF-4. Use the proper SAE viscosity grade of engine oil for the expected ambient temperature range as indicated in the following chart.

STARTING TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE

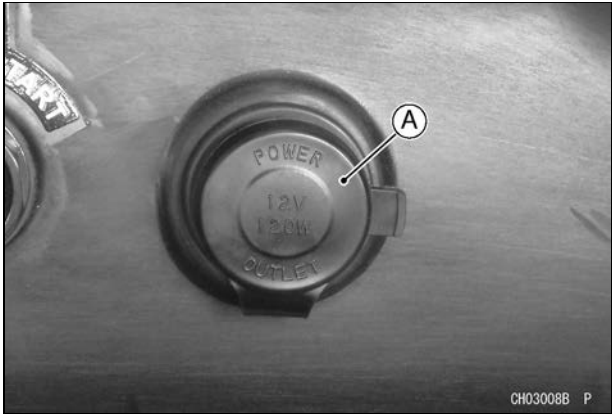


Lighting/Electrical Accessory Connector

(for KAF950)

The lighting 12 volt connector is located on the dashboard.

An auxiliary light may be connected to this connector.



A. Connector

Other connectors for electrical accessories are located under the left side dashboard.

Optional items such as wiper and so on may be connected to those connectors.

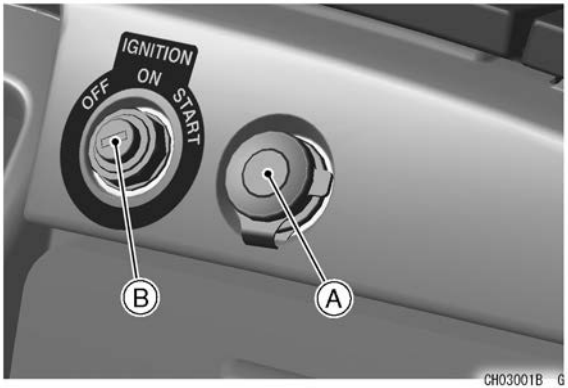


A. Connectors

(for KAF400)

The lighting/electrical accessory 12 volt connector is located on the dashboard.

An auxiliary light or an accessory may be connected to this connector.



A. Accessory Connector
B. Ignition Switch

NOTICE

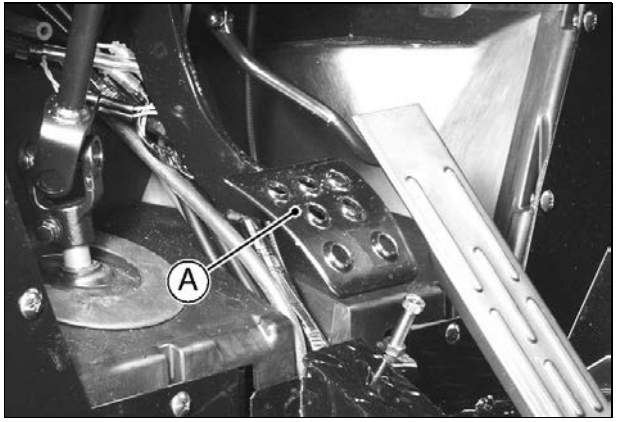
Do not connect a light or load of more than watts to these connectors, or the battery may become discharged very rapidly.

NOTE

○ *Allowable watt of your Mule is shown in your English OM, titled "Lighting/Electrical Accessory Connector" section of "GENERAL INFORMATION" chapter. Refer to the relevant page and copy the data value into the space provided in this page.*

Brake Pedal

The brake pedal is the left pedal on the foot board. Depress the pedal to slow or stop the vehicle.

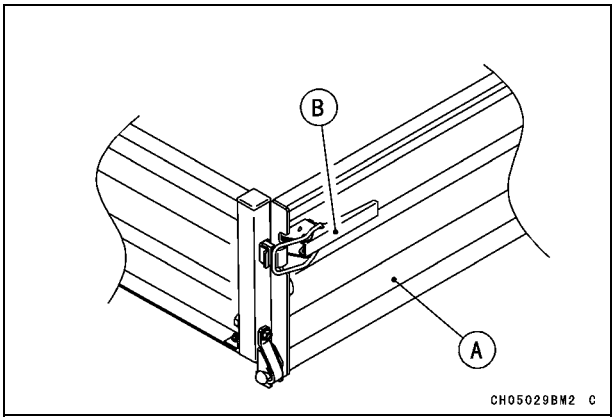


A. Brake Pedal

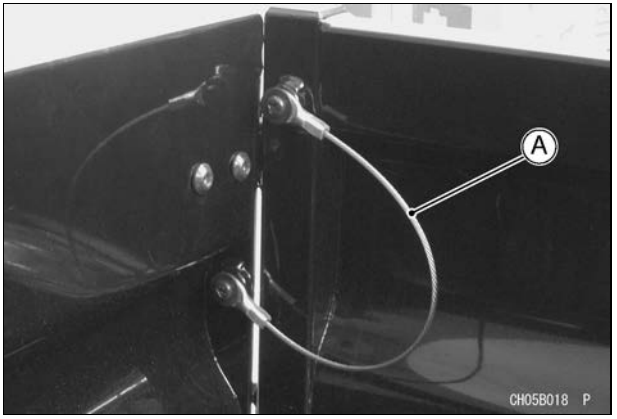
Cargo Bed

For loading and unloading, the tail gate of the cargo bed can be opened. Raise the latch handles at each end of the tail gate and slide both latches towards the center of the vehicle. The tail gate can now be lowered. The gate is held level to the cargo bed floor with wire loops.

(for KAF400)



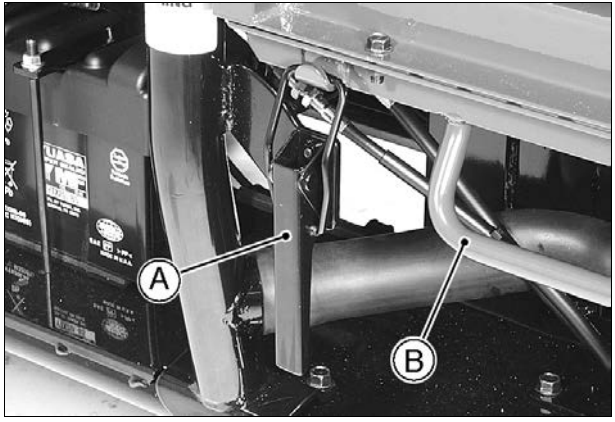
A. Tail Gate
B. Latch



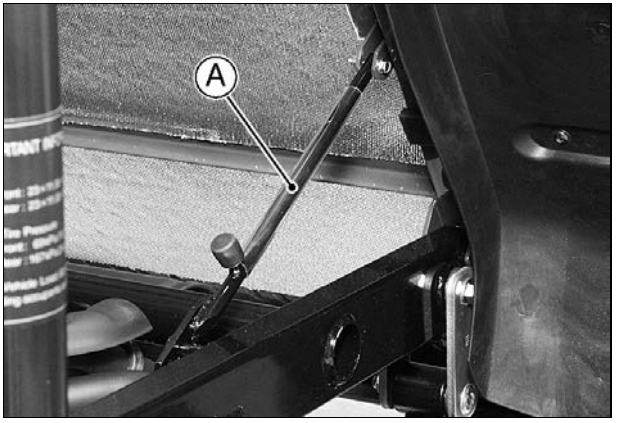
A. Wire Loop

Close the tail gate by sliding both latches toward the center of the vehicle. Push the handles down to make sure the latches stay securely closed.

The cargo bed may be tilted by releasing the latches on each side, and then lifting the bed with the handgrips. Support the bed in the tilted position with the rod.

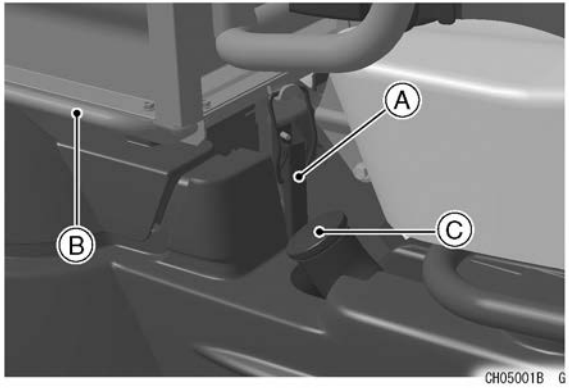


A. Latch
B. Handgrip



A. Supporting Rod

(for KAF400)



A. Latch
B. Handgrip
C. Fuel Tank Cap

NOTE

○ *Raise the seat first before releasing the latch.*

NOTICE

Do not carry more than the maximum load stated here in the cargo bed.

Maximum Load:

kg (lb)

⚠ WARNING

Overloading or improper use of the cargo bed can cause changes in handling which can lead to an accident. Follow guidelines provided in the "LOADING INFORMATION" chapter.
Passengers riding in the cargo bed can be tossed about or even thrown out causing serious injury or death. Do not install seating or carry passengers in the cargo bed.
Driving with the cargo bed tilted may be hazardous. Always lower and latch the bed before driving. Be careful not to catch any part of your body, such as hands or arms, between the bed and cab frame or vehicle frame when lifting and lowering the bed.

NOTE

○ *Maximum load for the cargo bed of your Mule is shown in your English OM titled "Cargo Bed" section of "GENERAL INFORMATION" chapter. Refer to the relevant page and copy the data value into the space provided in this page.*

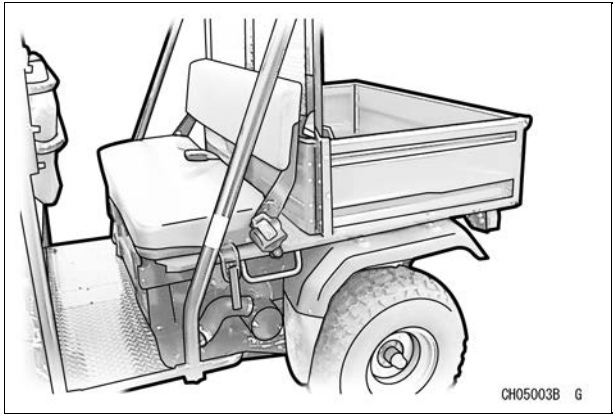
(for KAF950G)

Maximum Load:

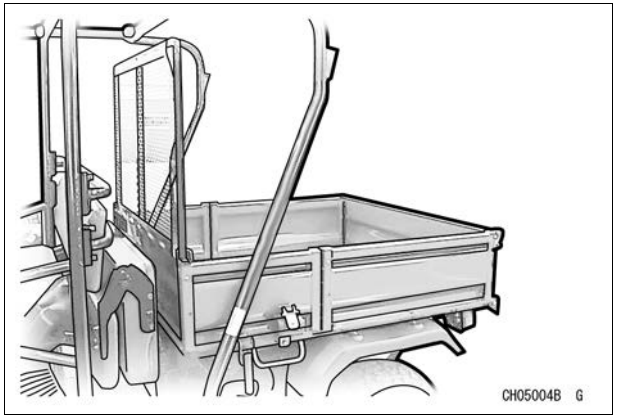
Short Bed mode: 318 kg (700 lb)
Long Bed mode: 499 kg (1 100 lb)

Cargo Bed Conversion

Cargo bed can be converted in combination with passenger capacity, and it can be converted between a short or long bed by moving the rear seat and the screen. See the HOW TO OPERATE chapter for the converting operations.



Shortened Cargo Bed



Extended Cargo Bed

Raising the cargo bed

The cargo bed can be raised for engine maintenance or servicing. Release the latches on both sides and raise it with the handgrips. Support the bed in the tilted position with the rod. The raising & lowering procedures are different with the rider's seats being set for 2 persons or 4 persons. See the HOW TO OPERATE chapter for the handling.

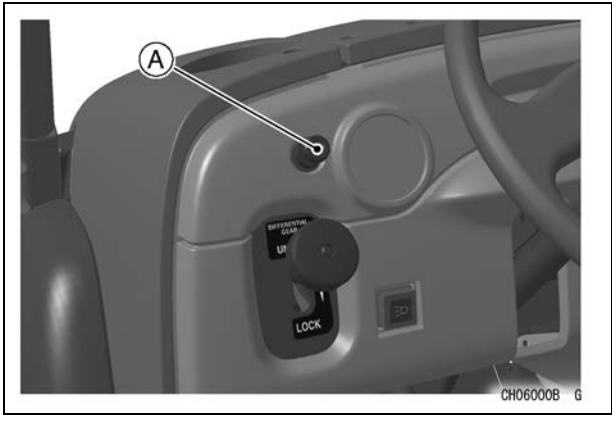
Choke Knob

(for KAF400)

The choke knob located on the dashboard, to the left of the steering shaft, provides a rich mixture for cold starting.

Pull the choke knob all the way out until it stops and hold it to start the engine. Warm the engine up using the choke and throttle until the idle speed is stable, and then release the choke knob.

Refer to the "Starting the Engine" section in the "How to Operate" chapter for detailed information.



A. Choke Knob

NOTE

○ *If the choke is left on (pulled out) after the engine has warmed up, spark plug fouling and poor fuel economy may result.*

Glow Plug Light

(for KAF950)

The glow plug light goes on for 5 seconds when the main key is turned to the ON position. The light also goes on whenever the key is in the "start" position. The light goes off after the glow heats fully. If it does not go on or go off, have the glow plug and related system checked by an authorized Kawasaki dealer.

Refer to the "Starting the Engine" section in the "How to Operate" chapter for detailed information.



A. Glow Plug Light

Coolant Temperature Warning Light

(for KAF950)

The coolant temperature warning light (TEMP) comes on whenever the coolant temperature rises too high while the vehicle is in operation. If it stays on, stop the engine and check the coolant level in the reserve tank after the engine cools down.

Refer to the “Cooling System” section in the “Maintenance and Adjustment” chapter.

Also check the breaker of the radiator fan and, if it has functioned, reset the breaker. Be sure to check that the radiator fan is free from mud and other obstacles. See Breaker section of MAINTENANCE AND ADJUSTMENT chapter.



A. Coolant Temperature Warning Light

NOTE

○ *When you touch the cooling fan, be sure to disconnect the (–) cable of the battery, since the cooling fan can turn automatically even with the ignition switch off.*

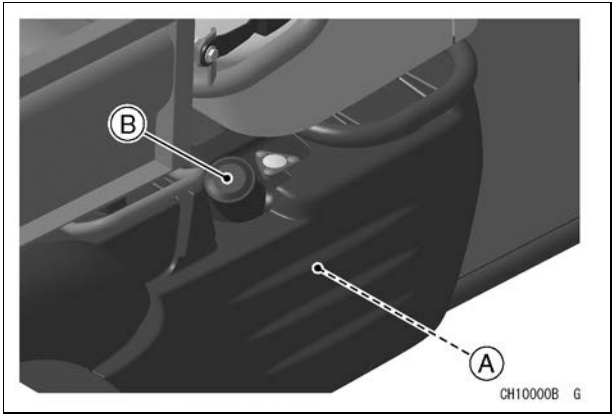
NOTICE

Do not let the engine continue running with a warning light on. Prolonged engine operation can result in engine damage from overheating.

Fuel Tank

(for KAF400)

The fuel tank is mounted under the right end of the seat. The gasoline octane rating listed is recommended. Avoid filling the tank in the rain or where heavy dust is blowing, so that the fuel does not get contaminated.



A. Fuel Tank
B. Filling Cap

⚠ WARNING

Diesel fuel is extremely flammable and can be explosive under certain conditions. Turn the ignition key to "OFF". Do not smoke. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank completely to the top. As the fuel expands in a warm tank, it may overflow through the vents in the tank cap. After refueling, make sure the fuel tank cap is closed securely. If diesel fuel is spilled on the fuel tank, wipe it off immediately.

Fuel Requirements:

Fuel Type

Use only unleaded gasoline with an octane rating equal to or higher then that shown in the table.

Octane Rating Method	Minimum Rating
Research Octane Number (RON)	91

NOTICE

Use of leaded gasoline is illegal in some countries, states of territories. Check local regulations before using leaded gasoline.

Octane Rating

The octane rating of a gasoline is a measure of its resistance to detonation or "knocking." The term commonly used to describe a gasoline's octane rating is the Research Octane Number (RON). Always use a gasoline with an octane rating equal to, or higher than, RON 91.

NOTE

○ *If "knocking" or "pinging" occurs, use a different brand of gasoline or higher octane rating.*

NOTICE

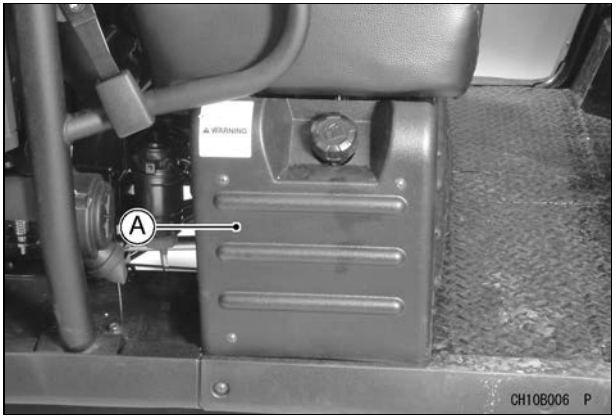
Do not use alcohol or "gasohol" in this vehicle. It has not been tested and certified for use with such fuels. Damage to the vehicle may result from the use of improper fuel.

(for KAF950)

The fuel tank is mounted under the right side of the cargo bed. Use clean, fresh diesel fuel (ASTM D975) for good performance of this vehicle. Avoid refilling the tank in the rain or where heavy dust is blowing, so that the fuel does not get contaminated.

NOTICE

Fuel that is contaminated by water or dirt can cause severe damage to the fuel system.



A. Fuel Tank

⚠ WARNING

Diesel fuel is extremely flammable and can be explosive under certain conditions. Turn the main switch key to the OFF position. Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.
Never fill the tank completely to the top. If the tank is filled completely to the top, heat may cause the fuel to expand and overflow though the vents in the tank cap.
After refueling, make sure the tank cap is closed securely.
If diesel fuel is spilled on the fuel tank, wipe it off immediately.

Fuel Requirements:

Fuel Type

The use of quality fuel from reputable supplier, specially formulated for vehicle use, is recommended to maintain performance and life from the engine.

In all cases, diesel fuel of minimum cetane number 40 (ASTM D975) should be used. When operating in cold weather or high altitude above 1 500 m (5 000 ft), diesel fuel of greater cetane number is recommended.

If available in your area, a high cetane "premium" diesel fuel may offer improved cold-starting and warm-up performance.

NOTICE

Do not use gasoline, gasohol or any other fuel, except diesel fuel. Improper fuel can cause severe fuel injection system and engine damage.

Lower Sulfur

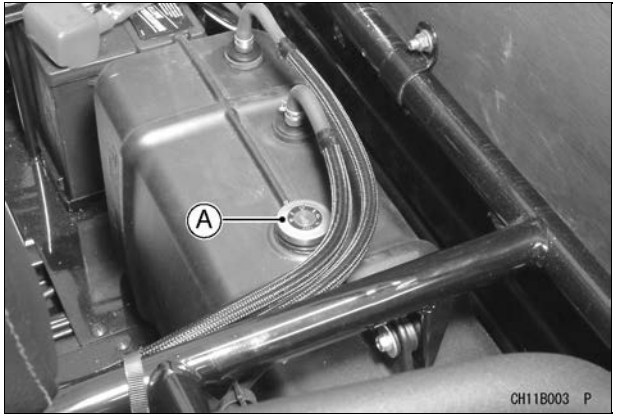
Sulfur content is recommended at less than 0.05%.

To avoid engine corrosion, and engine oil contamination, do not use fuel with more than 0.5% sulfur content.

Fuel Gauge

The fuel gauge on the fuel tank shows the amount of fuel in the fuel tank.

When the red indicator needle comes near the "E" (Empty) mark, refuel at the earliest opportunity.



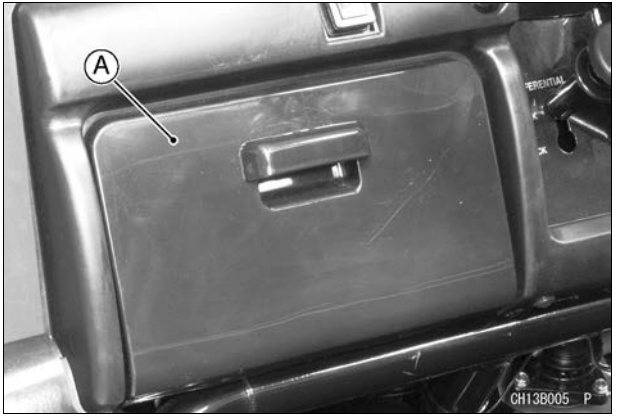
A. Fuel Gauge

Glove Compartment

(for KAF950)

A glove compartment is provided at the each end of the dashboard. Store only light items to avoid damage to the inside of the compartments. Do not store anything which must not get wet or dirty.

Release the plug in the bottom of the left and right glove compartments to remove any water that may have entered.



A. Left Glove Compartment

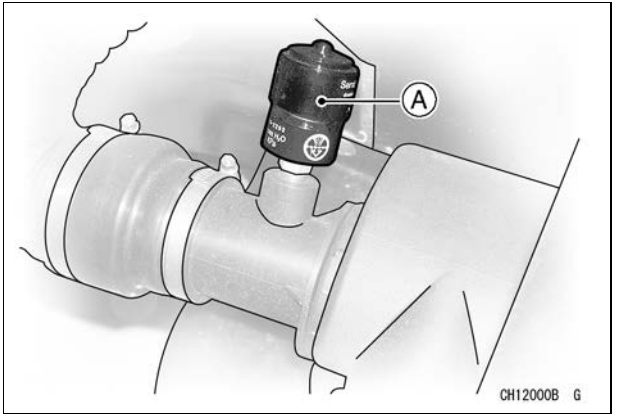


A. Right Glove Compartment

Air Filter Restriction Gauge

(for KAF950)

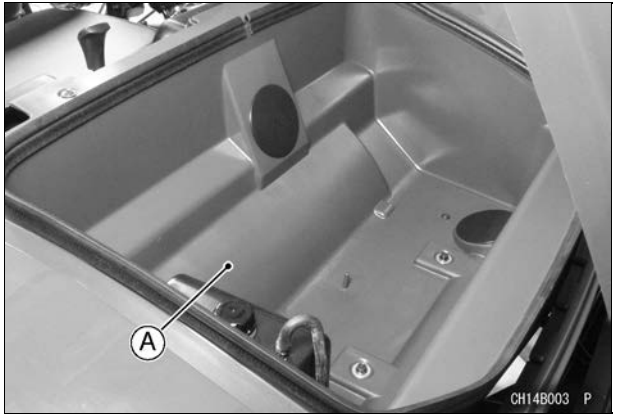
The air filter restriction gauge is on right side under the seat. It shows whether the air cleaner is clogged. The air cleaner element should be cleaned if the restriction gauge window band changes from yellow to red. After servicing the air cleaner element, the restriction gauge should be reset by pushing the button at the end of the gauge.



A. Air Filter Restriction Gauge

Front Cargo Compartment

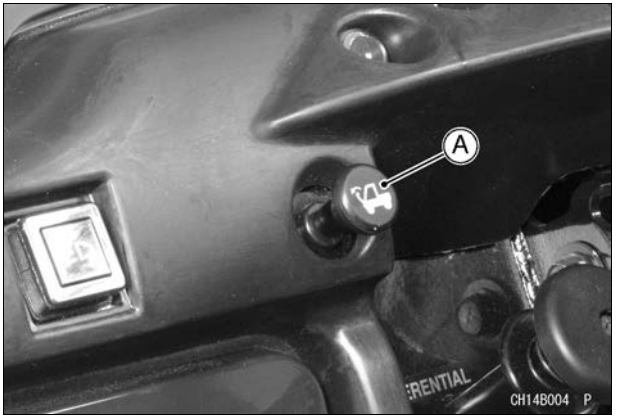
The front cargo compartment is located under the front cargo hood. Store only light-weight items in it to avoid damage to the inside of the compartment. Do not put items which must not get wet or dirty in it.



A. Front Cargo Compartment

Hood Opening

Pull the latch release knob and raise the hood until it stops.



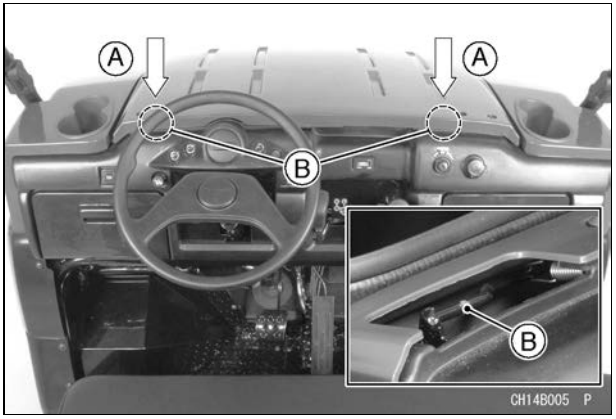
A. Latch Release Knob

NOTE

○ *When the hood is hard to open, pull and lift up the front hood center portion with pulling the knob to open the hood.*

Hood Closing

- Close the hood until it locks.
- After the hood is closed, push the two parts of the hood to ensure the hood is latched.



A. Push here.
B. Latches

⚠ WARNING

An open front cargo hood can distract or impair visibility of the operator, causing loss of vehicle control and potential serious injury or death.
Latch the hood securely before operating the vehicle.

Horn Button

(for KAF950)

A car-type horn button is provided on the center of the steering wheel. Push the horn button to sound the horn.

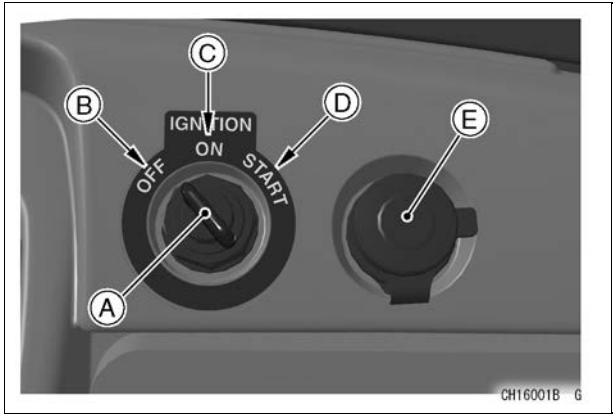


A. Horn Button

Ignition Switch

This is a three-position, key-operated switch. The key can be removed from the switch only when it is in the "OFF" position.

(for KAF400)



A. Ignition Switch
B. "OFF" position
C. "ON" position
D. "START" position
E. Accessary Connector

OFF	Engine off. All electrical circuits off.
ON	All electrical equipment can be used. Hour meter works.
START	Electric starter is engaged by holding ignition switch key in this position, only when gear shift lever is in "N" (neutral) position. Upon release, key will return to "ON" position.

NOTICE

Do not operate the starter continuously for more than 5 seconds, or the starter will overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool for the battery to recover power.
Do not turn the ignition switch key to the "START" position with the engine running, or damage to the starter can result.

NOTE

○ *The vehicle is equipped with a starter lockout switch. This switch prevents the electric starter from operating when the gear shift lever is in the "H" (High) and "L" (Low) for KAF400A or "F" (Forward) for KAF400B or "R" (Reverse) position.*

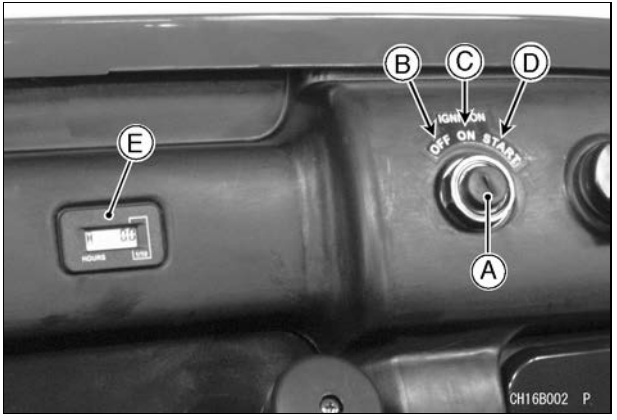
Blank keys are available at your Kawasaki dealer. Ask your dealer to make any additional spare keys you need, using your original key as a master.

Write your key number here.

Main Switch

(for KAF950)

This is a three-position, key-operated switch. The key can be removed from the switch only when it is in the "OFF" position.



A. Main Switch
B. "OFF" position
C. "ON" position
D. "START" position
E. Hour Meter

OFF	Engine off. All electrical circuits off.
ON	All electrical equipment can be used. Hour meter works.
START	Electric starter is engaged by holding main switch key in this position, only when gear shift lever is in "N" (neutral) position. Upon release, key will return to "ON" position.

NOTICE

Do not operate the starter continuously for more than 5 seconds, or the starter will overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and for the battery to recover power.
Do not turn the main switch key to the "START" position with the engine running, or damage to the starter can result.

NOTE

○ *The vehicle is equipped with a starter lockout switch. This switch prevents the electric starter from operating when the gear shift lever is in the "H" (High), "L" (Low) or "R" (Reverse) position.*

Blank keys are available at your Kawasaki dealer. Ask your dealer to make any additional spare keys you need, using your original key as a master.

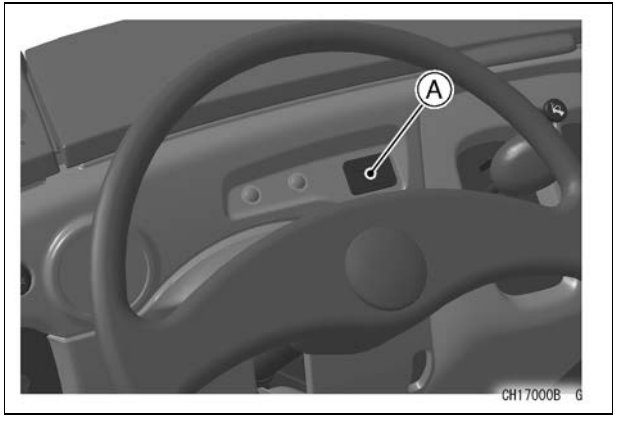
Hour Meter

The hour meter shows the total hours that the vehicle has been operated. This meter cannot be reset.

NOTE

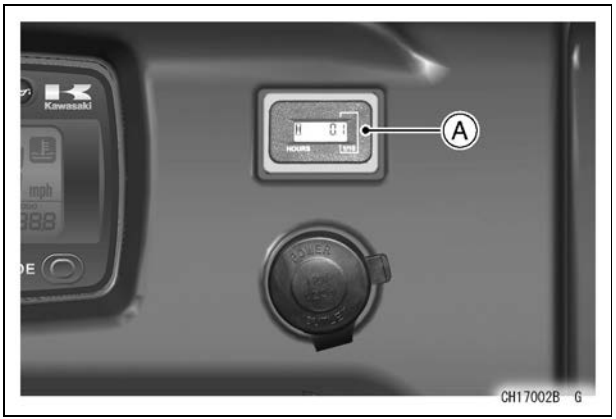
○ *The data is maintained even if the battery is disconnected.*
○ *When the figures come to 99999, they turn back to 00000 for KAF400 or 9999.9 to 0.0 for KAF950 and start counting upward again when the ignition switch is turned on or while the vehicle is operated.*

(for KAF400)



A. Hour Meter

(for KAF950)



A. Hour Meter

Light Switch

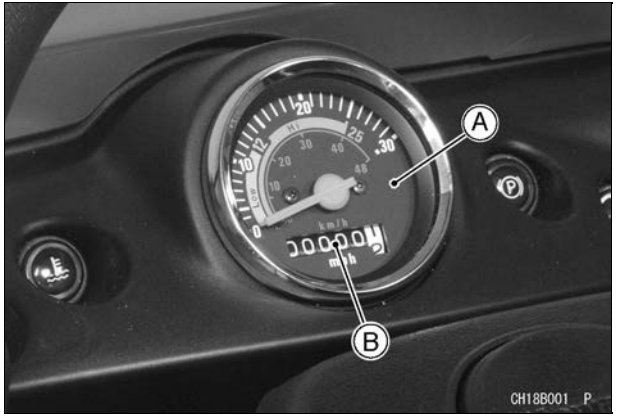
Turn on the headlights and taillights by pushing the light switch in, with the ignition switch key in the "ON" position.

The lights go off when the switch is pushed out.

Speedometer

(for KAF950)

The speedometer shows the speed of the vehicle. In the speedometer face is the odometer. The odometer shows the total distance that the vehicle has been driven.



A. Speedometer
B. Odometer

Oil Pressure Warning Light

(for KAF950)

The oil pressure warning light goes on whenever the oil pressure is dangerously low or the main key is in the ON position with the engine not running, and goes off when the engine oil pressure is high enough.

NOTICE

If the engine oil gets extremely low or if the oil pump does not function properly, or oil passages are clogged, or otherwise do not function properly, the oil pressure warning light will light. If this light stays on when the engine speed is running slightly above the idle speed, stop the engine immediately and find the cause.



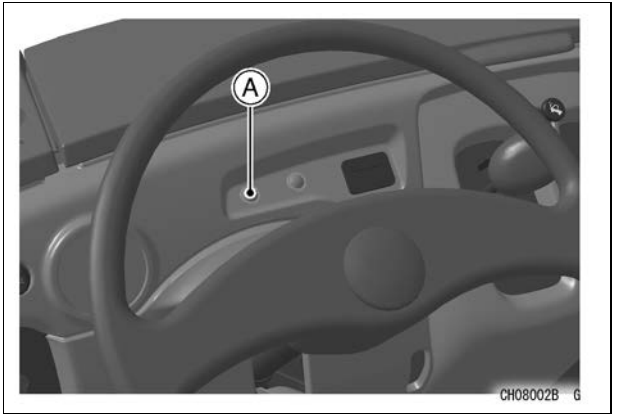
A. Oil Pressure Warning Light

Engine Oil Temperature Warning Light

(for KAF400A only)

The oil temperature warning light comes on whenever the engine oil temperature rises too high while the vehicle is in operation. If it stays on, stop the engine and check the engine oil level after the engine cools down.

Refer to the “Engine Oil” section in the “Maintenance and Adjustment” chapter.



A. Engine Oil Temperature Warning Light

NOTICE

Do not let the engine continue running with a warning light on. Prolonged engine operation can result in engine damage from overheating.

Shift Levers

This vehicle is equipped with three different shift levers: the gear shift lever, the 2WD-4WD shift lever (KAF400A & KAF950) and the differential shift lever.

Gear Shift Lever

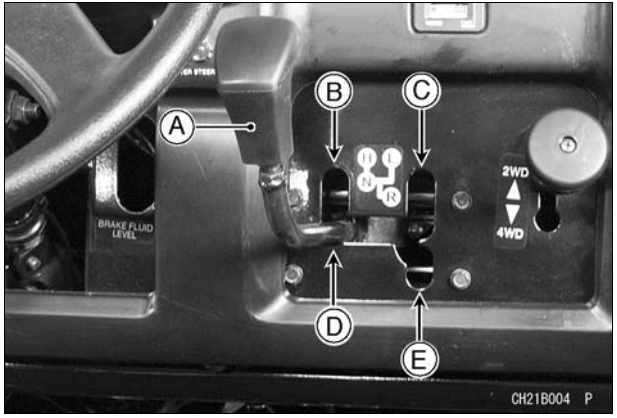
The gear shift lever is located on the dashboard, to the right of the steering shaft. The gear shift lever has four (KAF400A & KAF950) or three (KAF400B) positions: “H” (High) and “L” (Low) for KAF400A and KAF950 only or “F” (Forward) for KAF400B, “N” (Neutral), and “R” (Reverse).

Model	Gear Position
KAF400A KAF950	"H" (High), "L" (Low), "N" (Neutral), "R" (Reverse)
KAF400B	"F" (Forward), “N" (Neutral), "R" (Reverse)

Make certain that the vehicle is completely stopped and the engine is idling before shifting from “H” (High) or “L” (Low) for KAF400A and KAF950 only or “F” (Forward) for KAF400B to “R” (Reverse) or vice versa. Move the gear shift lever up or down as indicated on the label next to the shift lever.

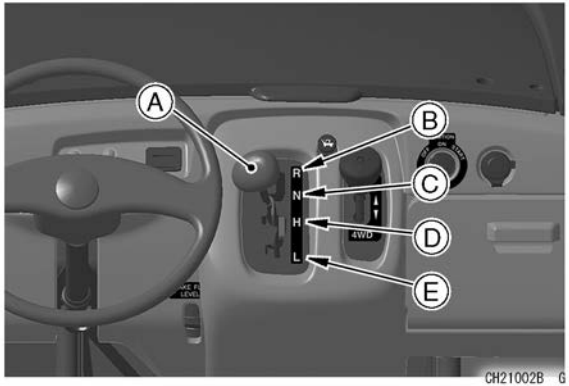
Refer to the "Reversing Gears" section in the "How to Operate" chapter.

(for KAF950)



A. Gear Shift Lever
B. "H" (High) Position
C. "L" (Low) Position
D. "N" (Neutral) Position
E. "R" (Reverse) Position

(for KAF400)



A. Gear Shift Lever
B. "R" (Reverse) Position
C. "N" (Neutral) Position
D. "H" (High) Position
E. "L" (Low) Position (KAF400A & KAF950 only) or "F" (Forward) Position (KAF400B only)

NOTICE

Do not shift from "H" (High) or "L" (Low) to "R" (Reverse) and vice versa for KAF400A or "F" (Forward) to "R" (Reverse) and vice versa for KAF400B when the vehicle is moving or with the engine running above idling speed, or the transmission could be damaged.

The KAF400A & KAF950 are equipped with a sub-transmission to allow maximum transmission efficiency. Use the low gearing for maximum torque at low speeds, for climbing hills, pulling a trailer, or keeping constant low speeds for agricultural use. The high gearing raises the speed range for ordinary off-highway use. Stop the vehicle before moving the Hi-Lo shift lever.

NOTICE

Use of the high range for heavy loads, climbing hills, and pulling a trailer can lead to premature wear of the torque converter belt and pulleys. Use low range for these conditions.

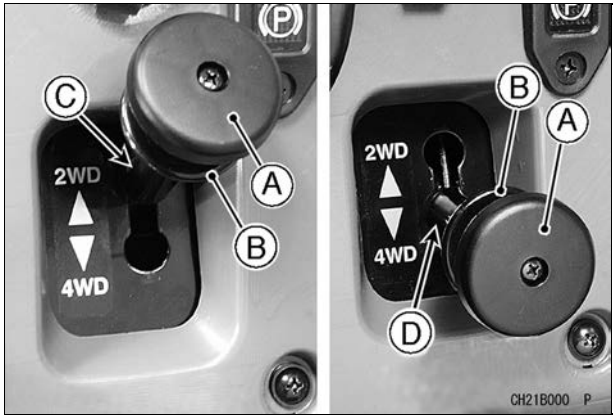
Refer to the "Hi-Lo Shifting" section in the "How to Operate" chapter.

2WD-4WD Shift Lever (KAF400A & KAF950)

This vehicle can be operated either in "2WD" or "4WD".

The 2WD-4WD shift lever is located on the dashboard, to the right of the steering shaft. Move the 2WD-4WD shift lever up or down on the label to the left of the lever.

Refer to the "2WD-4WD Shifting" section in the "How to Operate" chapter.

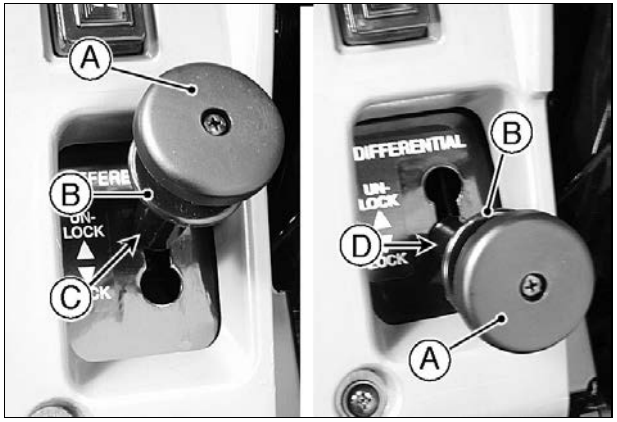


A. 2WD-4WD Shift Lever
B. Stopper
C. "2WD" Position
D. "4WD" Position

Differential Shift Lever

This vehicle is equipped with a dual-mode rear differential. The differential shift lever is located on the dashboard, to the left of the steering shaft. Move the shift lever up or down as indicated on the label next to the shift lever.

Refer to the "Shifting the Differential" section in the "How to Operate" chapter.



A. Differential Shift Lever
B. Stopper
C. Differential (Unlocked-Axle) Mode Position (UN-LOCK)
D. Locked-Axle Mode Position (LOCK)

Reverse Light

A reverse light is provided under the cargo bed.

When the gear shift lever is shifted to "R" (reverse) position, the reverse light will be lit.



A. Reverse Light

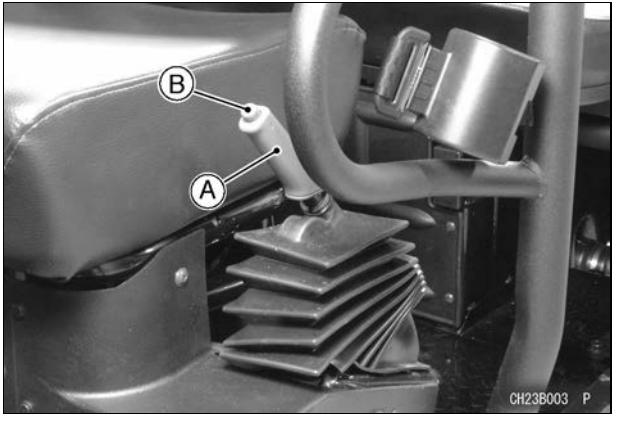
Parking Brake Lever

The parking brake lever is located at the left side of the seat. Pull the lever up and to the rear to apply the parking brake.

To release, push in and hold the knob on the end of the lever and push the lever all the way down. Spring pressure helps return the lever to the released position.

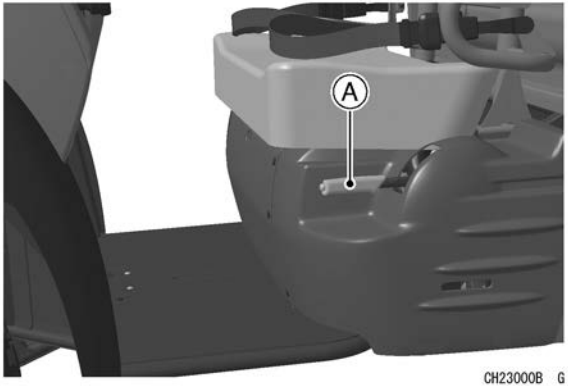
Be sure to release the parking brake before driving off. Failure to do so may result in poor performance and premature wearing of the rear brakes and belt converter system.

(for KAF950)



A. Parking Brake Lever
B. Knob

(for KAF400)



A. Parking Brake Lever

⚠ WARNING

If the vehicle should move after it is parked, it might be damaged or cause injury. Be sure to apply the parking brake before leaving the vehicle.

Parking Brake Warning Light

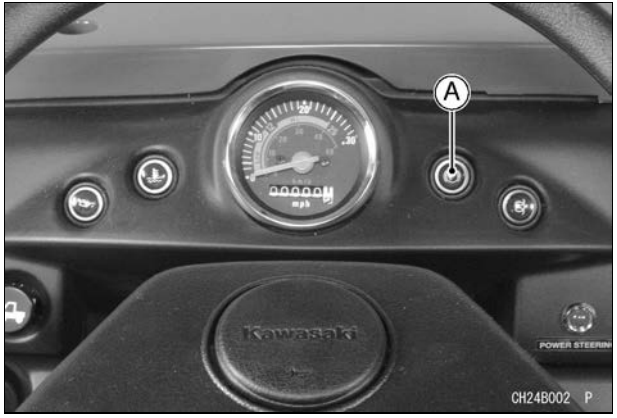
(for KAF400 & 950)

The parking brake warning light goes on when the parking brake is applied with the ignition switch in the "ON" position.

NOTE

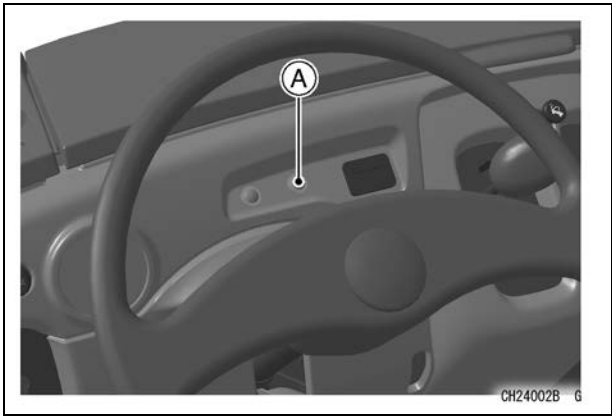
○ *This light shows only that the parking brake is on. It does not show the degree of parking brake application.*

(for KAF950)



A. Parking Brake Warning Light

(for KAF400)

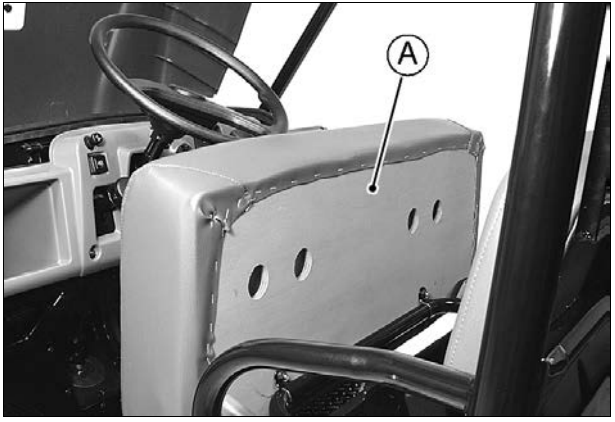


A. Parking Brake Warning Light

Seat

The seat can be raised for vehicle maintenance and adjustment.

- Pull up on the rear edge of the seat.

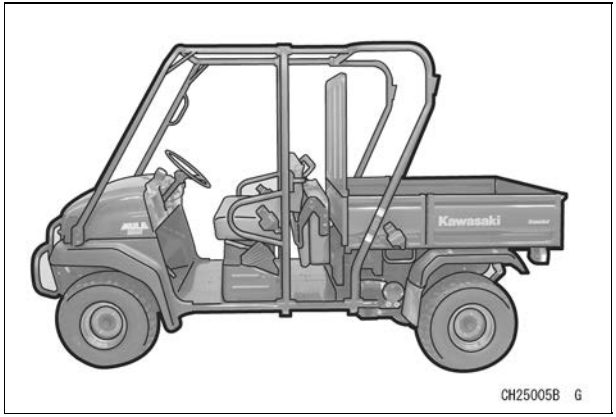


A. Seat (Raised Position)

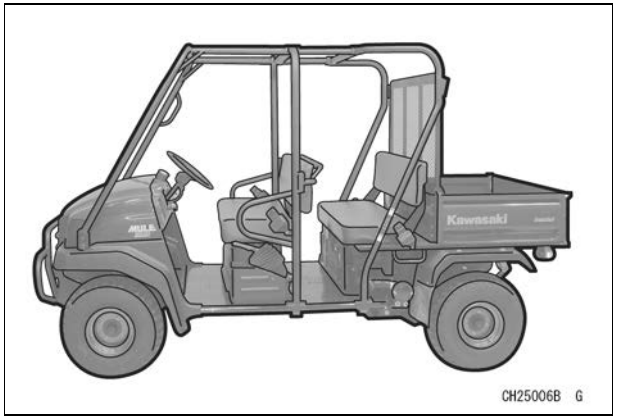
(for KAF950G)

There are front and rear seats on this vehicle. It can be transformed from 2-passenger to 4-passenger by unfolding the rear seat.

2-passenger mode



4-passenger mode



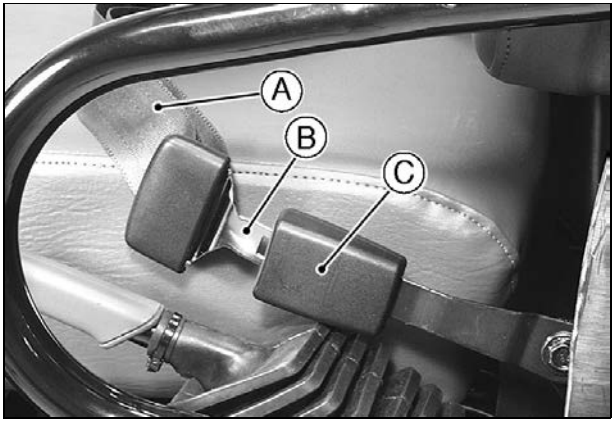
NOTE

○ *Converting the rear seat must be made in combination with cargo bed conversion. See the conversion of Rear Seat section in the HOW TO OPERATE chapter.*

Seat Belts

(for KAF400 & KAF950F)

The vehicle is equipped with lap-style seat belts both for the operator and passenger. Always wear the seat belts when operating and riding in the vehicle.



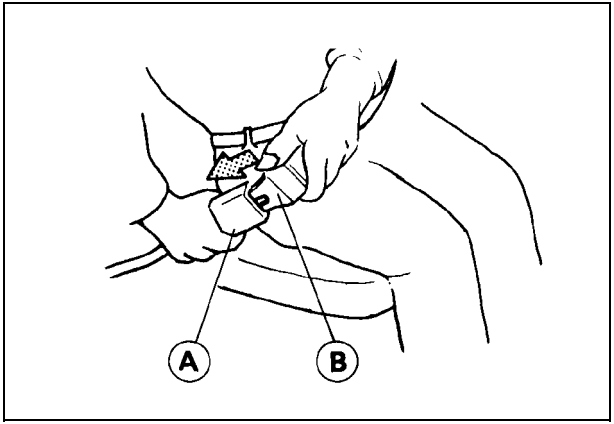
A. Seat Belt
B. Latch Plate
C. Buckle

⚠ WARNING

Seat belts reduce injury. Always wear your seat belt. The lap-style seat belt may not provide adequate protection for small children. Special care is recommended when carrying a child passenger.

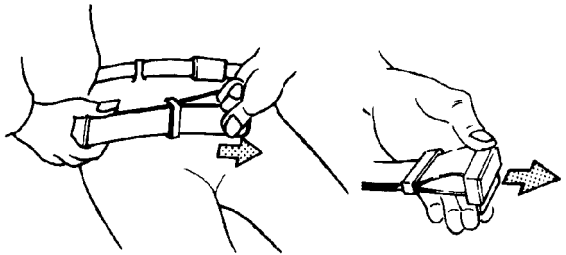
To wear the seat belt properly, follow this procedure:

1. Place the belt across your lap as low on your hips as possible taking care that the belt is not twisted.
2. Push the latch plate into the buckle until it clicks.
3. Adjust the seat belt for a SNUG FIT.



A. Buckle
B. Latch Plate

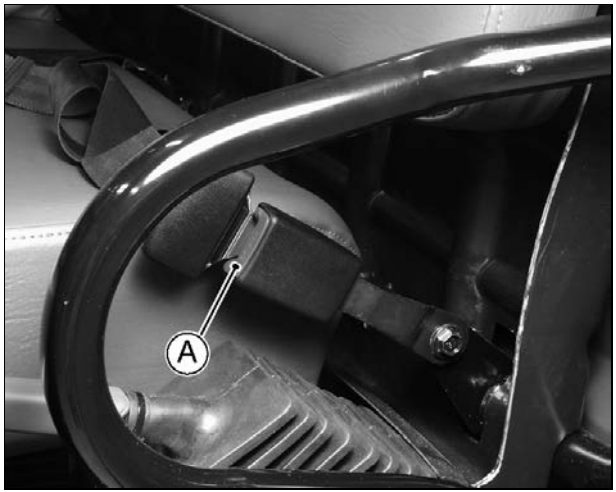
To tighten the belt, pull on the end of the belt coming from the latch plate. To loosen the belt, pull the latch plate at a right angle to the belt.



⚠ WARNING

Too much belt slack could reduce its protection effectiveness in an accident. Always adjust the belt to a SNUG FIT.

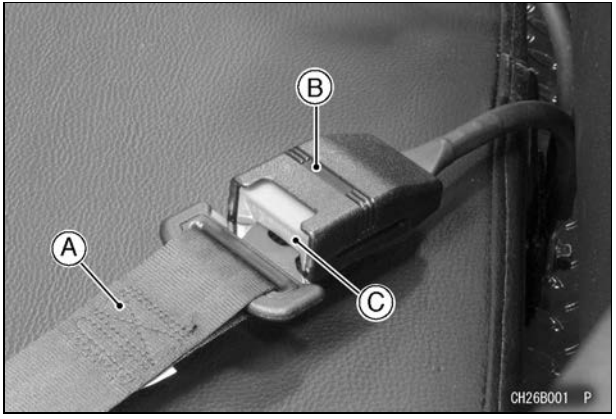
To unfasten the belt, press the red button in the buckle.



A. Red Button

(for KAF950G)

The vehicle is equipped with retractable lap-style seat belts for all occupants - operator and passenger for the front seat and two passengers for the rear seat. Always wear the seat belts when operating and riding in the vehicle



A. Seat Belt
B. Buckle
C. Red Button

⚠ WARNING

Seat belts reduce injury. Always wear your seat belt. The lap-style seat belt may not provide adequate protection for small children. Special care is recommended when carrying a child passenger.

To wear the seat belt properly, follow this procedure:

1. Place the belt across your lap as low on your hips as possible taking care that the belt is not twisted.
2. Push the latch plate into the buckle until it clicks.
3. Verify the belt retracts to a SNUG FIT.

⚠ WARNING

Too much seat belt slack could reduce its protection effectiveness in an accident. Always verify that the belt is at a SNUG FIT.

To unfasten the belt, press the red button in the buckle.

Steering Wheel

(for KAF950)

The steering wheel position can be adjusted to suit the operator. Refer to the "Steering Wheel" section in the "Maintenance and Adjustment" chapter.

This vehicle is equipped with an electrical power steering system. The system does not require regular maintenance by users. Do not tamper with the electronic control unit (ECU) or loosen the fittings of steering actuator, or the neutral position setting of the steering will be adversely affected and will cause serious driving problems. If such components need service, see an authorized Kawasaki dealer.

If the steering becomes more difficult than usual or you experience other steering problems, refer to the “Steering Wheel” section in the “MAINTENANCE AND ADJUSTMENT” chapter.

NOTE

- *The power steering system functions only when engine is running.*
- *If you install wireless equipment on board, contact an authorized dealer. Installing such equipment improperly may affect the ECU.*

Power Steering Warning Light

(for KAF950)

The power steering warning light will momentarily illuminate when the main switch is first turned to the ”ON” position, then goes off in one second if the system is in order. If the warning light illuminates any other time, it indicates the ECU or actuator has malfunctioned, or the wiring harness has become disconnected. Stop driving immediately and see an authorized Kawasaki dealer to have the system checked.



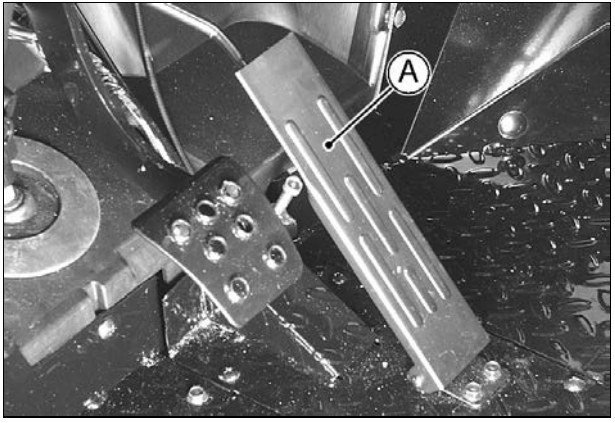
A. Power Steering Warning Light

NOTE

○ *If the warning light does not go on when the main switch is “ON”, there may be a problem with the light itself. See a dealer for inspection.*

Throttle Pedal

The throttle pedal is the right pedal on the floor board. Push the pedal down to increase engine speed. Spring pressure returns the pedal to the rest position when released. Always check that the throttle pedal returns normally before starting the engine. In addition, there must be adequate throttle pedal play and stop position. Refer to the "Maintenance and Adjustment" chapter for the throttle pedal adjustment procedure.



A. Throttle Pedal

Trailer Hitch Bracket

This vehicle is equipped with a bracket for a trailer hitch. (Optional for KAF400) Trailer towing equipment is not supplied with this vehicle.

To avoid injury and property damage, observe the following precautions:

⚠ WARNING

Improper towing of a loaded trailer could cause an accident resulting in serious injury or death. Never carry a passenger in a trailer. Never load more than kg tongue weight on the towing bracket. Do not operate the vehicle faster than km/h when towing. Remember that towing a trailer increases braking distance. Do not tow more than kg trailer weight (trailer plus cargo weight). Attach a trailer to the trailer hitch bracket only. Do not attach a trailer to any other location or you may lose control of the vehicle and have an accident.



A. Trailer Hitch Bracket (Optional for KAF400)

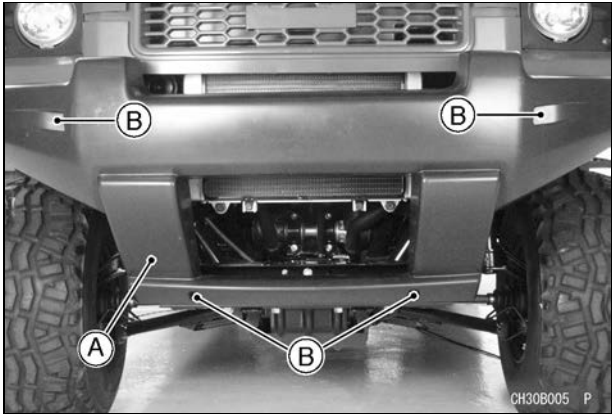
NOTE

○ *Maximum load for the cargo bed of your Mule is show in your English OM titled "Cargo Bed" section of "GENERAL INFORMATION" chapter. Refer to the relevant page and copy the data value into the space provided in this page.*

Winch Installation

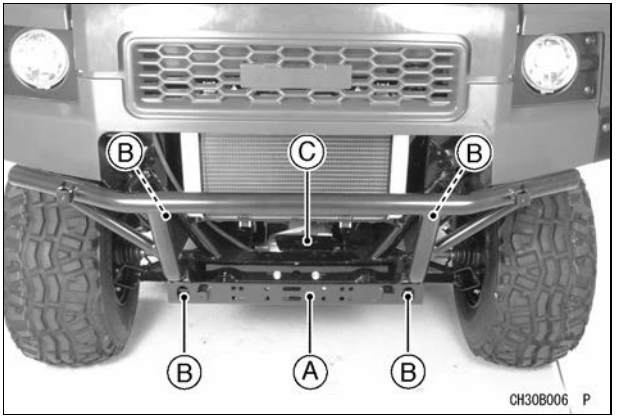
(for KAF950) Installing procedure for a winch

1. Remove the front bumper cover screws, and front bumper cover.

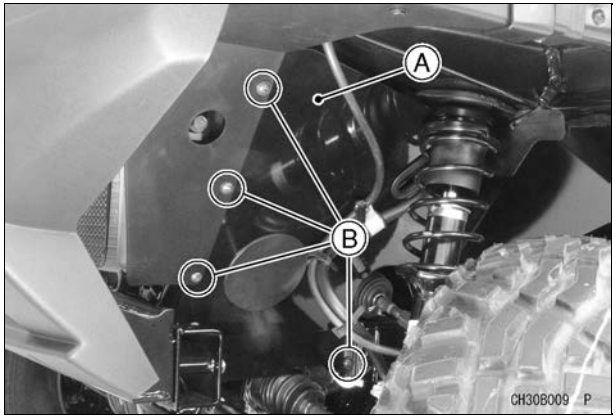


A. Front Bumper Cover
B. Screws

2. Remove the front bumper and side plate to gain access by releasing bolts and screws.

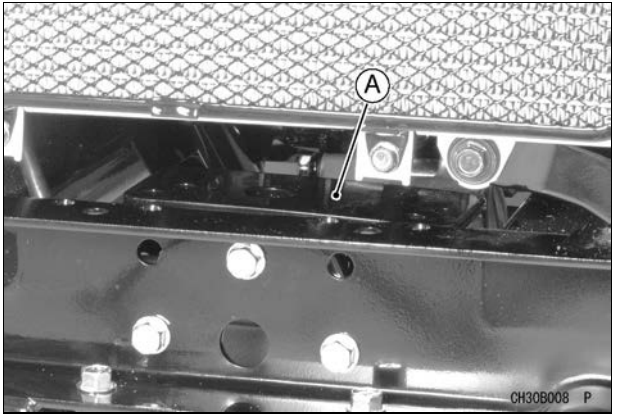


A. Front Bumper
B. Bolts
C. Winch Bracket



A. Side Plate
B. Screws

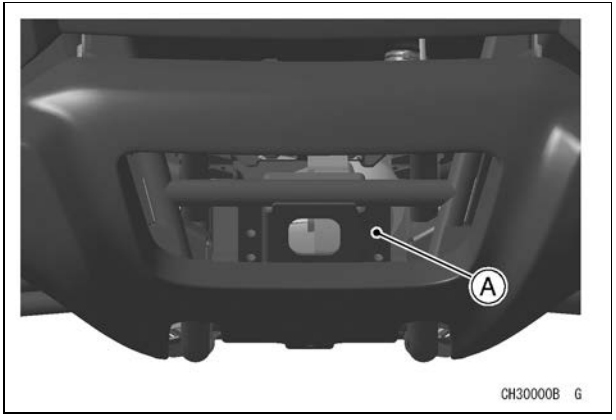
3. You can see the bracket attached to a cross-member.



A. Winch Bracket

4. Follow a manual to be supplied by the winch maker for installing the winch and other accessory as necessary.
5. After installing the winch, be sure to re-install the bumper and bumper cover.

(for KAF400)



A. Winch Bracket

HOW TO OPERATE

Daily Safety Checks

Check the following items each day before operation. The time required is minimal, and habitual performance of these checks will help ensure safe, reliable operation.

If any irregularities are found during these checks, refer to the MAINTENANCE AND ADJUSTMENT chapter, see your dealer, or refer to the Service Manual for the action required to return the vehicle to a safe operating condition.

⚠ WARNING

Failure to perform these checks before operation may result in serious damage or an accident. Always perform daily safety checks before operation.

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas.
Inhaling carbon monoxide can cause serious brain injury or death.
Do not run the engine in enclosed areas. Operate only in a well-ventilated area.

Fuel ..... Enough fuel in tank, no leaks.
Engine oil ..... Oil level between H and L lines (when engine is cold), no leaks.
Air Cleaner (for KAF950) ..... Check the restriction gauge for the red band in the window.
Tires ..... Air pressure (when cold):

Front	kPa (kgf/cm²)
Rear	kPa (kgf/cm²)

Check for cuts, cracks, damage, or excessive wear.Check for any imbedded stones or other foreign particles in tread.

Front Final Gear Case and Transmission Case (for KAF400A & 950)	No oil leaks.
Coolant (for KAF950)	Coolant level between level lines (when engine is cold), no leaks.
Throttle	Throttle pedal free play ~ mm.Throttle pedal operates smoothly and returns to rest position when released.
Steering	Steering wheel free play ~ mm.Action smooth without excessive play, rough spots, or strange noises.
Brakes	Check for braking effectiveness (while test running).Brake pedal free play ~ mm.Brake fluid level between level lines, no leaks.Parking brake lever travel: ~ clicks.
Electrical Equipment	All lights and horn work. Check for dirt on or damage to lights.
Battery	Electrolyte level between level lines in each cell.
Engine Cooling Fan Screen	Check for mud and other debris.

NOTE

○ *Information for the various values shown here such as tire pressures, free plays are described in your English OM, titled "Daily Safety Checks" section of "HOW TO OPERATE" chapter. Refer to the relevant page and copy those data values into the spaces provided in this page.*

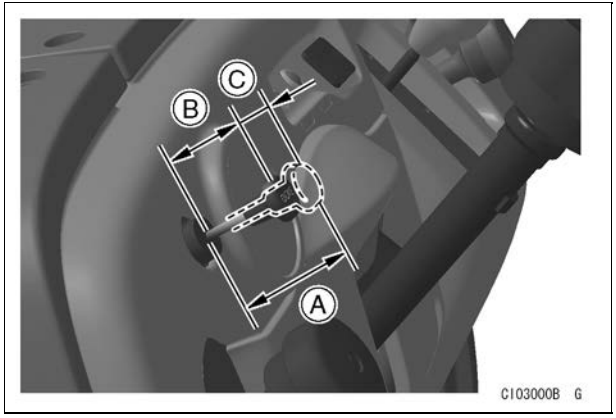
Starting the Engine

(for KAF400)
Throttle-linked choke system

This vehicle is equipped with the choke that controls the throttle operation without pressing the throttle pedal when starting the engine.

Mechanism of the System

- By pulling the choke knob out, the choke valve in the carburetor starts to close.
- By further pulling the knob over the stepping response, throttle valve linked to the choke starts to open slightly. (You can feel this move by increased resistance of the choke knob.)



A. Full Choke Stroke
B. Ordinary Choke Stroke
C. Throttle-linked Choke Stroke

Using this choke system, start the engine with the following procedure.

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

- Wear the seat belts (both operator and passenger).
- Apply the parking brake.
- Put the gear shift lever in the “N” (Neutral) position.
- Put the ignition key in the switch.

NOTE

- *When engine is cold and air temperature is below 20°C (68°F), pull the choke knob all the way out and keep holding the knob so that the throttle-linked choke system functions. Release the choke knob when the engine has started and push in the choke knob after the engine starts to warm up.*
- *When engine is warm or air temperature is 20°C (68°F) or higher, do not use the choke. Push down the throttle pedal slightly. If the engine is hard to start, use the choke for a short time only.*

- Turn the key in the ignition switch to the start position to activate the electric starter. Repeat until engine starts.

NOTICE

Do not operate the electric starter continuously for more than 5 seconds, or the starter may overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and for the battery power to recover.

NOTE

- *If the engine is flooded, make sure the choke knob is all the way in. Then crank the engine over with the throttle fully open (throttle pedal fully depressed) until the engine starts.*
- *The vehicle is equipped with a starter lockout switch. This switch prevents the electric starter from operating when the gear shift lever is in the "H" (High), "L" (Low; KAF400A only) or "R" (Reverse) position.*
- *If the brake pedal is depressed, it is possible to start in any position.*

- Gradually return the choke knob to the "OFF" position a little at a time as necessary to keep the engine running properly during warm-up.

NOTE

- *If you drive the vehicle before the engine is warmed up, return the choke to the "OFF" position as soon as you start moving.*

(for KAF950)

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

- Wear the seat belts (both operator and passenger).
- Apply the parking brake.
- Shift the gear shift lever in the N (neutral) position.
- Put the main key in the main switch at the OFF position.
- Turn the main switch key to the ON position. The glow plug system is designed so that the glow plug light goes on at that time, and turns off after 5 seconds.
- After the glow plug light turns off, turn the main key to the START position to activate the electric starter leaving the throttle open part away (pressing lightly on the throttle pedal). Repeat until the engine starts.

NOTICE

Do not operate the electric starter continuously for more than 5 seconds, or the starter may overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and for the battery to recover power.

NOTE

- *The vehicle is equipped with a starter lockout switch. This switch prevents the electric starter from operating when the gear shift lever is in the "H" (High) and "L" (Low) for KAF400A and KAF950 only or "F" (Forward) for KAF400B or "R" (Reverse) position.*
- *When the key is turned to the START position, the glow plug light goes on again, and after the key returns to the ON position, the glow plug light remains lit for about 20 seconds.*

- When the engine starts, release the main switch key, which will return to the ON position.
- Run the engine at slow idle until the engine idles smoothly (approximately 2 ~ 3 minutes). Avoid unnecessary idling; instead, stop the engine.

NOTICE

Do not operate the engine at full throttle or under load until engine has warmed up or engine damage could occur.

Cold Weather Starting

(for KAF950)

When parking your vehicle overnight, leaving it inside a garage, even if not heated, will make morning starting much easier. Changing to a lighter grade engine oil also makes starting easier under these conditions (consistent with recommended quality and viscosity).

If the ambient temperature is -10°C or lower, use this special starting procedure.

- Turn the main switch to the ON position, lighting the glow plug light.
- When the glow plug light turns OFF, turn OFF the main switch, then turn it back ON again.
- Repeat this 2 or 3 times to thoroughly preheat the combustion chambers.
- Finally, crank the engine to start it.

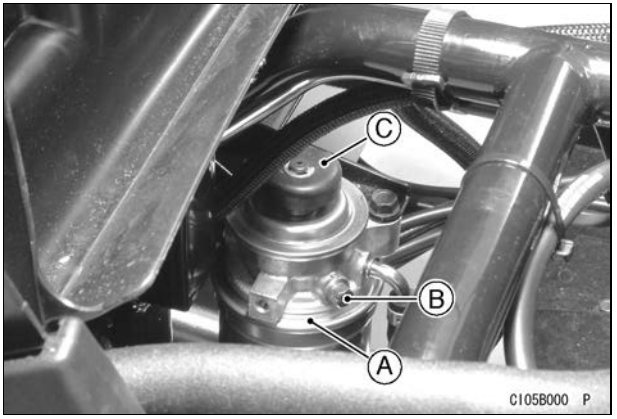
Starting After Fuel System Service

(for KAF950)

Air bleeding of the fuel system may be required before engine starting if air was introduced into the fuel system during maintenance. (Fuel filter draining/replacement, repairs, etc.)

To bleed out the air:

- Loosen the air vent plug on top of the fuel filter. (It has a 10 mm wrench head. It is not necessary to remove the air vent plug.)
- Repeatedly depress the priming pump button on top of the fuel filter bracket until fuel flows from loosened air vent plug.
- Tighten the air vent plug bolt using a 10 mm wrench.
- Wipe up any spilled diesel fuel.
- Follow normal starting procedures.



A. Fuel Filter
B. Air Vent Plug
C. Priming Pump

Jump Starting

If your vehicle battery is "run down," it should be removed and charged. If this is not practical, a 12 volt booster battery and jumper cables may be used to start the engine.

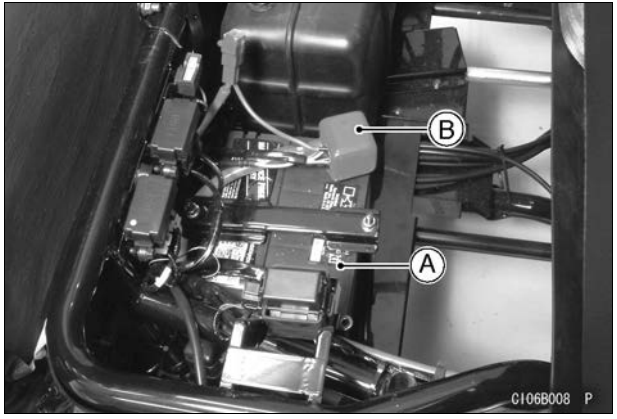
⚠ DANGER

Battery acid generates hydrogen gas which is flammable and explosive under certain conditions. It is present within a battery at all times, even in a discharged condition. Keep all flames and sparks (cigarettes) away from the battery. Wear eye protection glasses when working with a battery. In the event of battery acid contact with skin, eyes, or clothing, wash the affected areas immediately with water for at least five minutes. Seek medical attention.

Connecting Jumper Cables

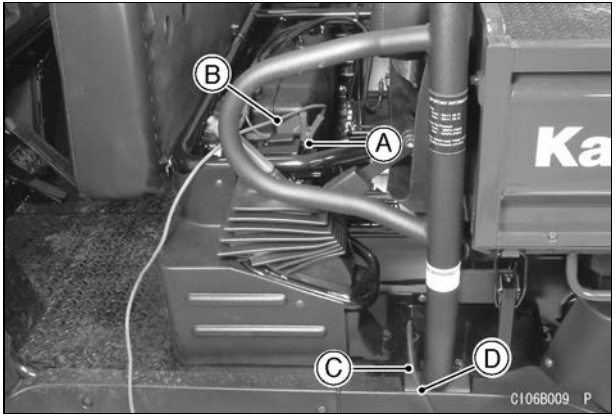
- Make sure the ignition switch is turned to "OFF" (for KAF400) or the main switch for KAF950.
- Remove the battery cap for KAF950.

(for KAF950)



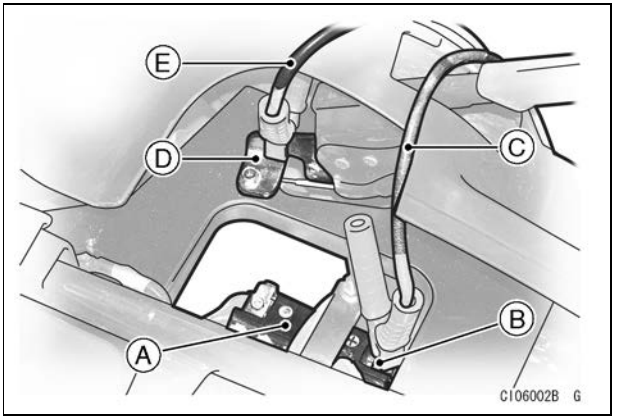
A. Battery
B. Cap Cover

- Connect a jumper cable from the positive (+) terminal of the booster battery to the positive (+) terminal of the vehicle battery.



A. Vehicle Battery Positive (+) Terminal
B. From Booster Battery Positive (+) Terminal
C. Unpainted Metal Surface
D. From Booster Battery Negative (–) Terminal

(for KAF400)



A. Battery
B. Vehicle Battery Positive (+) Terminal
C. From Booster Battery Positive (+) Terminal
D. Unpainted Metal Surface
E. From Booster Battery Negative (–) Terminal

- Connect another jumper cable from the negative (–) terminal of the booster battery to an unpainted metal surface on your vehicle. Do not use the negative (–) terminal of the battery.

⚠ DANGER

Batteries contain sulfuric acid that can cause burns and produce hydrogen gas which is highly explosive. Do not make this last connection at the carburetor or battery. Take care not to touch the positive and negative cables together, and do not lean over the battery when making this last connection. Do not connect to a frozen battery. It could explode. Do not reverse polarity by connecting positive (+) to negative (–), or a battery explosion and serious damage to the electrical system may occur.

- Follow the standard engine starting procedure.

NOTICE

Do not operate the starter continuously for more than 5 seconds, or the starter overheat and the battery power will drop temporarily. Wait 15 seconds between each operation of the starter to let it cool and for the battery to recover power.

- After the engine starts, disconnect the jumper cables. Disconnect the negative (–) cable from the vehicle first.
- Reinstall the battery cap for KAF950.

Moving Off

- Depress the brake pedal.
- Put the gear shift lever into the "H" (High) or "L" (Low KAF400A & KAF950) position or “F” (Forward) position for KAF400B.
- Release the parking brake.
- Gradually increase engine speed by pressing on the throttle pedal.

NOTE

○ *Practice starting and stopping (using the brakes) until you are familiar with the controls.*

Braking

NOTE

○ *When the throttle pedal is released completely and the engine speed drops near an idle, the vehicle has no engine braking. This is caused by the vehicle's automatic transmission which releases the engine at very low speed to prevent it from stalling. Employ the brakes to control the vehicle's speed.*

- Release the throttle pedal completely.
- Press on the brake pedal evenly and firmly.

⚠ WARNING

Carrying cargo or towing a trailer will increase braking distances. Failure to allow for increased braking distance may result in accident and injury. Always allow more distance to stop when carrying cargo or towing a trailer.

Stopping the Engine

- Release the throttle pedal completely.
- Put the gear shift lever into the "N" (Neutral) position.
- Apply the parking brake to help prevent the vehicle from rolling.
- Turn the ignition switch key to the "OFF" position.

Parking the Mule

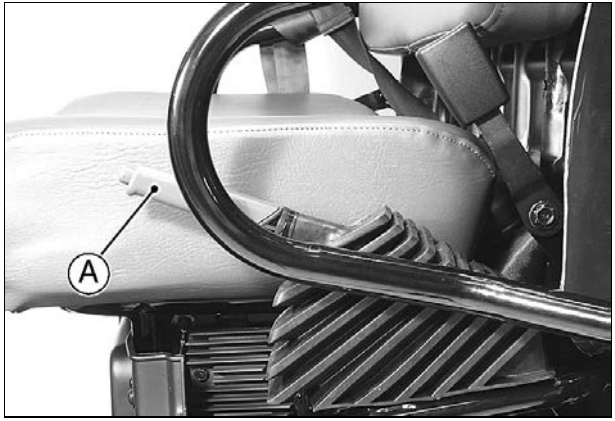
- Stop the vehicle on a level surface.

NOTICE

Avoid parking on steeply inclined surfaces.

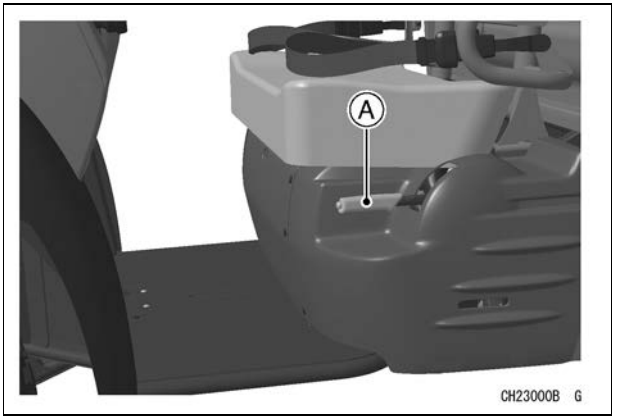
- When the engine has stopped, apply the parking brake to help prevent the vehicle from rolling.

(for KAF950)



A. Parking Brake Lever

(for KAF400)



A. Parking Brake Lever

⚠ WARNING

If the vehicle should move after it is parked, it might be damaged or cause injury. Be sure to apply the parking brake before leaving the vehicle.

- Remove the ignition switch key to prevent unauthorized use (or main switch for KAF950).
- When parking inside a garage or other structure, be sure the structure is well ventilated and the vehicle is not close to any source of flame or sparks. This includes any appliance with a pilot light.

(for KAF400)

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns. Turn the ignition switch "OFF". Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank completely to the top. If the tank is filled completely to the top, heat may cause the fuel to expand and overflow through the vents in the tank cap. After refueling, make sure the tank cap is closed securely. If gasoline is spilled on the fuel tank, wipe it off immediately.

(for KAF950)

⚠ WARNING

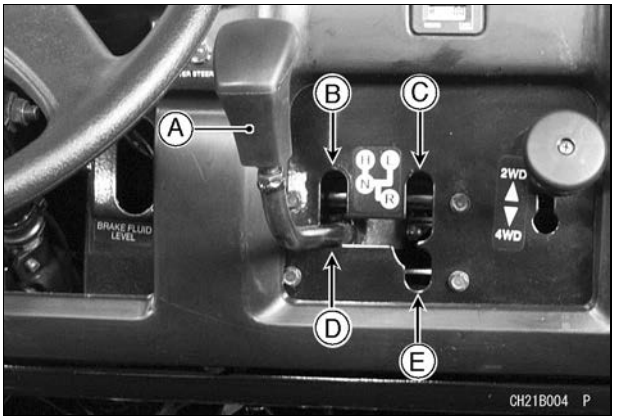
Diesel fuel is flammable and can ignite under certain conditions.

Hi-Lo Shifting

(for KAF400A & 950)

Shifting to Low Range

- Stop the vehicle completely.
- For easy Hi-Lo shifting, put the gear shift lever in neutral.
- Move the shift lever "L" (Low) position.



A. Gear Shift Lever
B. "H" (High) Position
C. "L" (Low) Position
D. "N" (Neutral) Position
E. "R" (Reverse) Position

Shifting to High Range

- Stop the vehicle completely.
- Put the gear shift lever in neutral.
- Move the shift lever "H" (High) position.

NOTE

○ *Before shifting make certain that the vehicle is completely stopped. The Hi-Lo shift lever cannot be shifted when the vehicle is in motion.*

(for KAF950)

NOTICE

Exceeding maximum downhill speed can cause transmission belt slippage, and excessive belt wear, damage or failure.
DO NOT EXCEED MAXIMUM DOWNHILL SPEED:
Low range – 19 km/h
High range – 40 km/h

Reversing Gears

- Release the throttle pedal, and stop the vehicle.
- When you want to operate the vehicle in reverse, stop the vehicle completely, allowing the engine to slow to idling speed, and move the gear shift lever to the "R" (Reverse) position.

NOTICE

Do not shift from “H” (High) or “L” (Low) to “R” (Reverse) and vice versa for KAF400A & KAF950 only or “F” (Forward) to “R” (Reverse) and vice versa for KAF400B when the vehicle is moving or with the engine running above idling speed, or the transmission could be damaged.

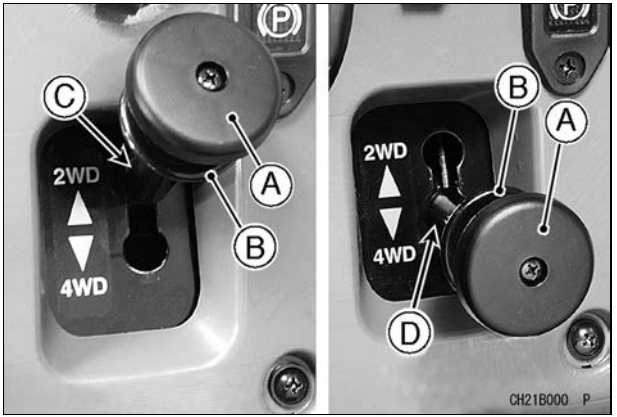
2WD-4WD Shifting

(KAF400A & 950)

- Pull the stopper under the 2WD-4WD shift lever knob and while holding it against the knob, move the shift lever to the all way down "4WD".
- To shift back into "2WD" position, pull and hold the stopper, then move the shift lever all the way up "2WD".

NOTE

○ *When the shift lever is moved from "2WD" to "4WD", the transmission shifts immediately. When the shift lever is moved from "4WD" to "2WD", the transmission may not shift all the way into "2WD" until the vehicle has rolled a short distance.*



A. 2WD-4WD Shift Lever
B. Stopper
C. "2WD" Position
D. "4WD" Position

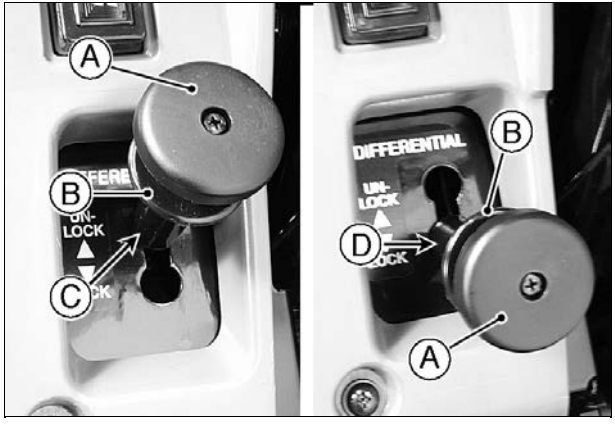
Shifting the Differential

NOTE

○ *Do not operate the differential shift lever if the vehicle is moving faster than 8 km/h (5 mph).*

Shifting to Locked-Axle Mode

● Pull the stopper under the differential shift lever knob and while holding it against the knob, move the shift lever all the way down (LOCK).



A. Differential Shift Lever
B. Stopper
C. Differential (Unlocked-Axle) Mode Position (UN-LOCK)
D. Locked-Axle Mode Position (LOCK)

Shifting to Differential (Unlocked-Axle) Model

● Pull and hold the stopper, then move the shift lever all the way up (UN-LOCK).

NOTE

○ *When the shift lever is moved, the differential may not immediately lock or unlock until the vehicle has rolled a short distance.*

Converting Rear Seat and Cargo Bed

(for KAF950G)

This vehicle can be converted to accommodate more passengers and less cargo or fewer passengers and more cargo.

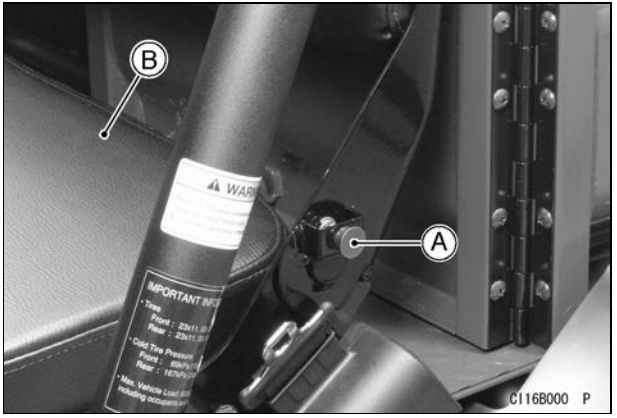
⚠ WARNING

If passengers ride in the cargo bed, they could be tossed about or thrown from the vehicle, causing serious injury or death. Never carry passengers in the cargo bed. Tilting the cargo bed when it is loaded may cause the vehicle to tip over backwards, causing serious injury or death. Never tilt the cargo bed when it is loaded. Driving with the cargo bed tilted may be hazardous. Always lower and latch the bed before driving.

The seats and the cargo bed can be converted in the following way.

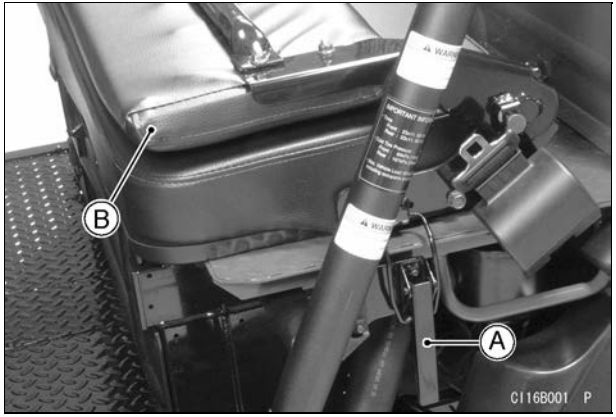
From 4-person to 2-person

1. Pull the rear seat stopper pin on the left side.



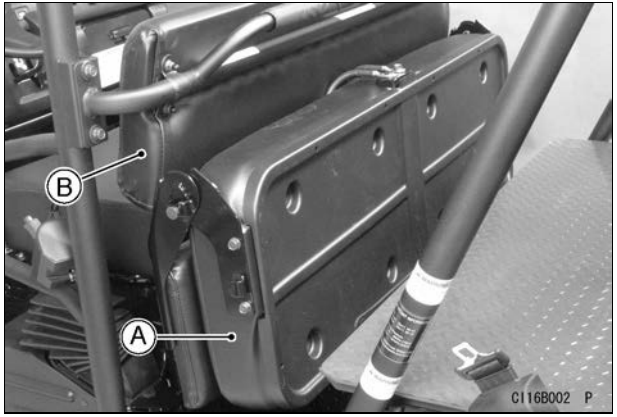
A. Stopper pin
B. Rear Seat

2. Push the rear seat back forward.
3. Release the latches on both sides.



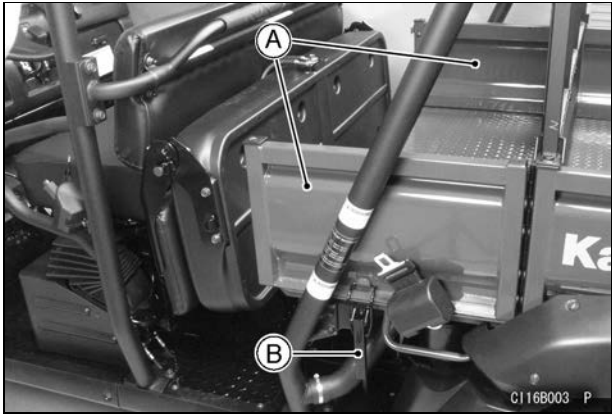
A. Latch
B. Rear Seat Back (lowered position)

4. Push the rear seat assembly forward into the stored position.



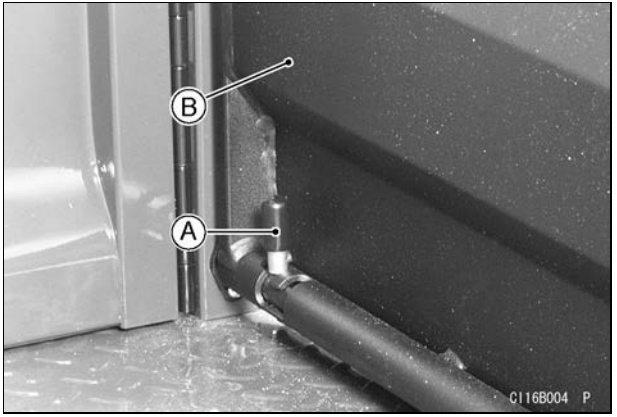
A. Rear Seat (Stored position)
B. Front Seat Back

5. Swing open the cargo bed side plates and fasten the latches on the both sides.



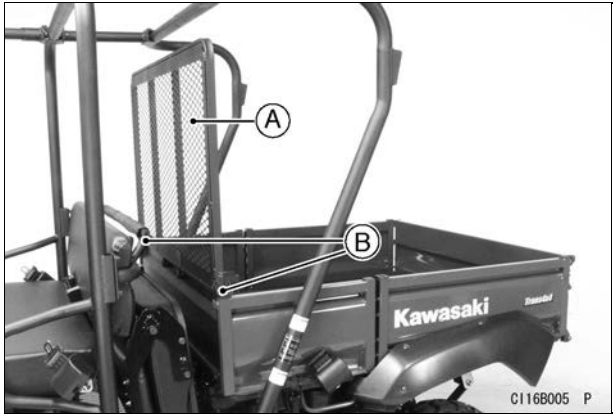
A. Cargo Bed Side Plates
B. Latch

6. Slide the stopper pins towards inside at the bottom of the removable screen.



A. Stopper Pin
B. Screen

7. Pull and remove the screen from the sockets, move forward and insert into the sockets at the end of the side plates.



A. Screen
B. Sockets

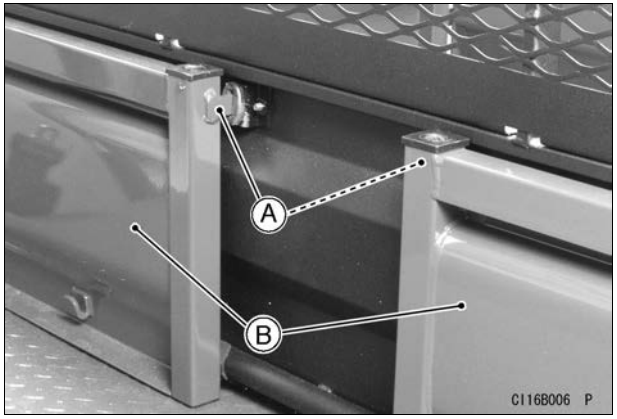
8. Latch the stopper pins at the bottom of the screen.

From 2-person to 4-person Mode

- Reverse the procedure for 4-person to 2-person mode conversion.

NOTE

○ *When folding the cargo bed end side plates, be sure to insert the end projections into the counter-parts on the screen.*



A. Projections
B. Cargo Bed Side Plate (folded)

Raising & Lowering the Cargo Bed

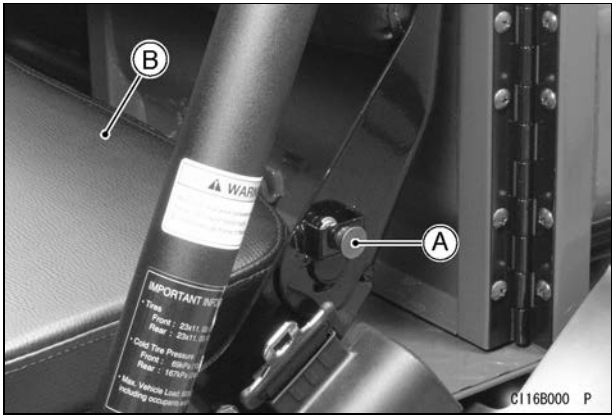
(for KAF950G)

⚠ WARNING

Reduced clearance between cargo bed and cab frame can cause hand injury. Do not hold cab frame in the location of the label when raising or lowering the cargo bed.

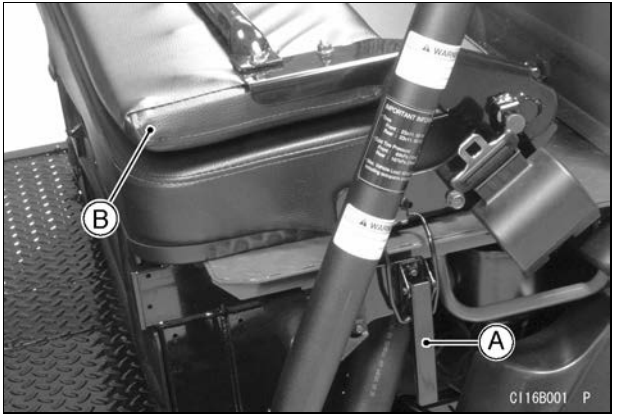
Raising the cargo bed (Shortened Condition) :

1. Pull the rear seat stopper pin on the left side.



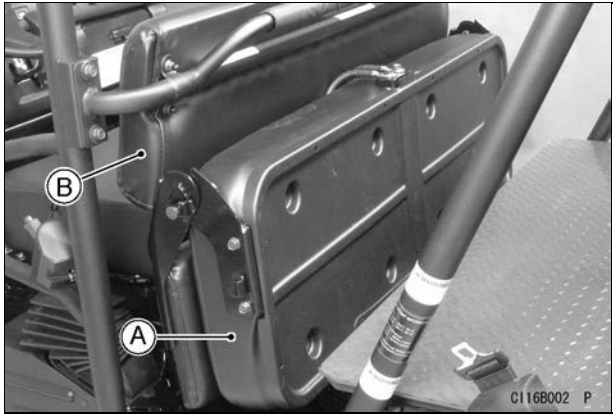
A. Stopper pin
B. Rear Seat

2. Push the rear seat back forward.
3. Release the latches on both sides.



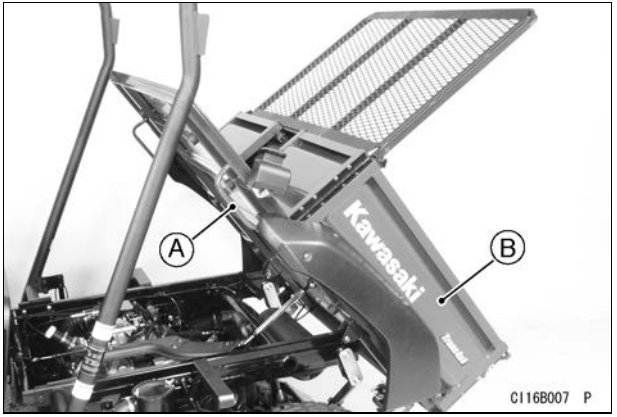
A. Latch
B. Rear Seat Back (lowered position)

4. Push the rear seat assembly forward into the stored position.



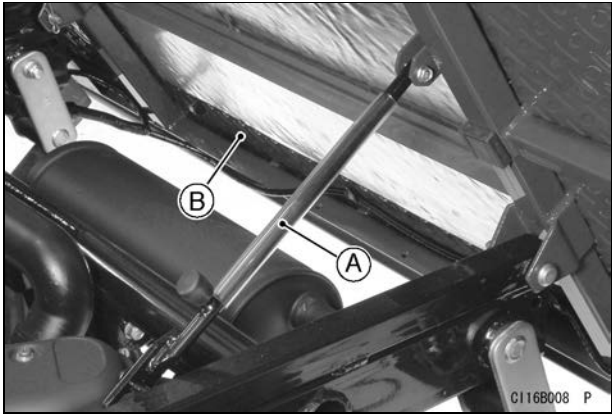
A. Rear Seat (Stored position)
B. Front Seat Back

5. Holding the hand grip and cargo bed top, raise the cargo bed.



A. Handgrip
B. Hold here.

6. Support the bed in the tilted position with the supporting rod.



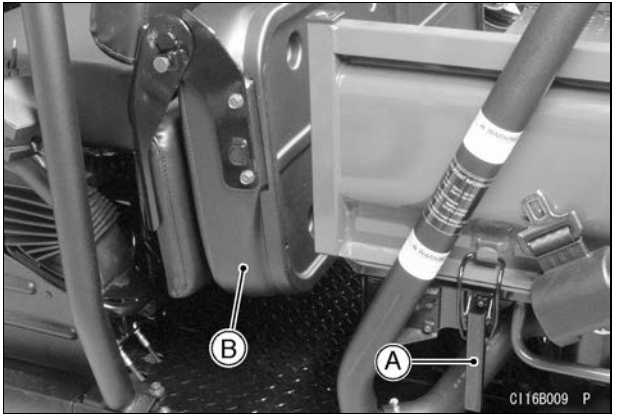
A. Supporting Rod
B. Cargo Bed (Raised Position)

NOTE

○ *To lower the cargo bed, follow the reverse procedure for raising. Be sure to restore the seat as before and put the latches on. Never drive the Mule without putting the latches to the cargo bed.*

Raising the cargo bed (Extended Condition):

1. Release the side latches.



A. Latch
B. Rear Seat (Stored position)

2. Holding the handgrip and cargo bed on the top edge, raise the cargo bed.
3. Support the bed in the tilted position with the supporting rod.

NOTE

○ *To lower the cargo bed, follow the reverse procedure for raising. Be sure to attach the latches to the cargo bed.*

⚠ WARNING

The cargo bed becomes heavier in the extended mode. Pay attention when raising or lowering the cargo bed not to injure your hand.

SAFE OPERATION

Safety is an attitude. Your common sense and good judgement are your best defenses against accident and injury in everything you do. Your safety and the safety of others depends on you and your common sense. Use good judgement in the operation of this or any other motor vehicle.

(for KAF400 & 950F)

This vehicle is designed for an operator and one passenger only. Never carry persons in the cargo bed. Refer to the "Loading Information" chapter before operating this vehicle.

(for KAF950G)

This vehicle is designed for an operator and one passenger (for 2-person mode) or an operator and three passengers (for 4-person mode). Never carry persons in the cargo bed. Refer to the “Loading Information” chapter before operating this vehicle.

Novice operators should practice braking and turning in an open, off-highway area away from other vehicles and persons. The terrain should be flat and free of obstacles, with either a loose or hard dirt surface, but not a mixture of both.

⚠ WARNING

Incorrect loading, improper installation or use of accessories, or modification of your vehicle may result in an unsafe operating condition. Before operation, make sure that the vehicle is not overloaded and that you have followed the instructions in the "LOADING INFORMATION" chapter.

Unfamiliar Terrain

Before driving in a new area be sure to check for hidden obstacles or hazards. Keep your speed down until you know the area well. You must know the terrain you intend to drive on and be familiar with your machine and its handling characteristics. Use existing trails and stay away from hazardous areas such as steep, rocky slopes or swamps. Be cautious when visibility is limited, as you may not be able to see obstacles in your path.

Driving in Reverse

Start the engine following the procedure in the "Starting the Engine" section. Before shifting into reverse, stop the vehicle completely. Refer to the Gear Shift Lever in the "Shift Levers" section and "Reversing Gears" section.

Turn around and look behind you before backing up to be sure there are no obstacles or people in your way. Gradually open the throttle and begin backing up cautiously.

To stop while driving in reverse, close the throttle and gradually apply the brake. Avoid sudden application of the brake.

NOTICE

Do not operate the gear shift lever to change gears while driving the vehicle in reverse, or the transmission may be damaged.

Remember:

- Look behind you before backing up.
- Open the throttle gradually.
- To stop, gradually apply the brake.

Driving in "4WD"

(for KAF400A & 950)

"4WD" gives greater traction when you are climbing steep inclines, or driving on bumpy, sandy or snowy surfaces. It also helps break loose, with the differential locked under certain circumstances, for example, when the vehicle is stuck in the mud. If maximum torque is needed in these situations, shift into the low position with the shift lever. Refer to the "Shift Levers" section and "2WD-4WD Shifting," "Shifting the Differential," and "Hi-Lo Shifting" sections.

NOTE

- *Do not drive in "4WD" on paved surfaces, because it increases tire and drive train wear and makes the steering feel tight.*

Remember:

- Use "4WD" on steep inclines or loose surfaces, or when stuck in the mud, with the differential locked if necessary.
- For maximum torque shift into low range.
- Do not drive in "4WD" on paved surfaces.

Turning the Vehicle

The vehicle will turn in a smaller radius with the differential unlocked (in differential mode). In this mode, the rear wheels can turn at different speeds allowing the vehicle to turn tighter and more smoothly. Even in this mode, however, avoid sharp turns to keep the vehicle from tipping. Reduce vehicle speed before entering the turn and use the throttle to maintain an even speed through the turn.

⚠ WARNING

In the differential mode, if either rear wheel leaves the ground it will spin freely, and the wheel on the ground will transmit very little power. When a spinning wheel touches the ground, it may grab abruptly, causing the operator to lose control. Do not make sharp turns, even in the differential mode, in order to avoid loss of control or tipping.

Remember:

- Slow down before entering the turn.
- Maintain an even speed through the turn.

Hills

As with any motor vehicle, loading of the vehicle, and the surface and steepness of the hill are among the critical considerations in climbing, descending or traversing hills. Use extreme caution on hills. Keep in mind that loading changes a vehicle's center of gravity and that the higher the center of gravity, the more likely the vehicle is to tip on uneven surfaces. Slippery, loose, or bumpy surfaces on hills are especially hazardous. Some hills are just too steep to climb. Always use common sense and practice good judgement.

Climbing Hills

Do not attempt to climb hills or steep inclines until you have mastered the controls and basic operating maneuvers of this vehicle. Always go straight uphill and, if the incline is steep and/or the surface is loose, use "4WD" (for KAF400A & KAF950) with the differential locked for greater traction, and in low range for maximum torque.

Avoid hills with slippery sides that will cause you to lose traction. Do not climb hills where you cannot see far enough ahead. If you cannot see what is on the other side of the crest of a hill, slow down until you can get a clear view. Don't apply power suddenly while climbing, or the front wheels might rise off the ground. If the vehicle does not have enough power to reach the top of the hill and stalls, allow the vehicle to roll slowly straight back down the hill controlling its descent with the brakes. Leave the gear shift lever in the “H” (High) and “L” (Low) position for KAF400A and KAF950 only or “F” (Forward) position for KAF400B until you stop at the bottom of the hill.

⚠ WARNING

Riding sideways across a hill may cause the vehicle to overturn, causing severe injury or death. Do not turn sideways to the hill.

Remember:

- Some hills are too steep. Use common sense.

- Never ride past your limit of visibility. If you can't see what is on the other side of the crest of a hill, slow down until you can get a clear view.
- Don't turn sideways to the hill.
- If you get stuck on a hill, roll slowly straight back down, using the brake, with the gear shift lever left in the “H” (High) and “L” (Low) position for KAF400A and KAF950 only or “F” (Forward) position for KAF400B.

NOTE

- *When the throttle pedal is released completely and the engine speed drops near an idle, the vehicle has no engine braking. This is caused by the vehicle's automatic transmission which releases the engine at very low speed to prevent it from stalling. Use the brakes to control the vehicle's speed.*

Descending Hills

Slow down or stop at the top of a hill so you can pick a straight, safe path for descent to avoid any obstacles. Normally you should descend straight down a hill since driving at an angle could cause the vehicle to lean to one side and possibly tip over. Proceed slowly and cautiously. Apply the brake as necessary. Be careful if the surface is loose because the tires are more likely to skid and braking effectiveness will be reduced.

Turning while descending a slope must be done very carefully and gradually to avoid tipping the vehicle over.

⚠ WARNING

Riding sideways across a hill may cause the vehicle to overturn, causing severe injury or death. Do not turn sideways to the hill.

Remember:

- Stop and look for obstacles before descending a hill.
- Go straight downhill.
- Go slowly.
- If you must turn, do so carefully and gradually.

NOTE

- *When the throttle pedal is released completely and the engine speed drops near an idle, the vehicle has no engine braking. This is caused by the*

vehicle's automatic transmission which releases the engine at very low speed to prevent it from stalling. Use the brakes to control the vehicle's speed.

(for KAF950)

NOTICE

Exceeding maximum downhill speed can cause transmission belt slippage, and excessive belt wear, damage or failure.
DO NOT EXCEED MAXIMUM DOWNHILL SPEED:
Low range - 19 km/h
High range - 40 km/h

Traversing Hillsides

When driving across the side of a hill, reduce vehicle speed and exercise extreme caution to prevent tipping or loss of control. Avoid hills with slippery sides that will cause you to lose traction. Also avoid traversing hillsides covered with rocks or other obstacles which may cause you to lose your balance or tip over.

When driving on soft terrain, steer slightly uphill to keep the vehicle on a straight line across the hillside.

If the vehicle begins to tip, steer downhill if possible to regain control.

Sliding and Skidding

Obviously, on slippery or loose surfaces, special care is required. Sliding any vehicle may be hazardous because the wheels may suddenly regain traction and cause the vehicle to tip or overturn. Therefore, never drive "beyond your abilities" or when you are unsure or unprepared for the surface.

Often you can correct a skid by turning the wheels in the direction of the skid. Do not apply heavy braking force or accelerate when skidding, since this may cause further loss of control.

Use caution and maintain low speeds to avoid uncontrolled skidding on areas covered with clay, mud, ice, or snow. Use "4WD" and low range gearing efficiently (for KAF400A & KAF950). These conditions are particularly hazardous when descending a hill or making a turn. Remember that this vehicle is not for use on public streets, roads, or highways.

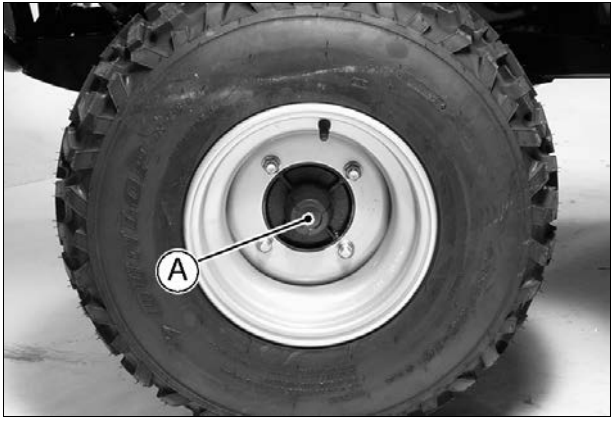
Remember:

- Be especially careful on very slippery surfaces.
- Don't drive on public streets, roads, or highways.

Driving through Water

Avoid driving through water whenever it is possible. When driving across shallow water, choose a location to enter and exit the water where the banks are not too steep or slippery. Check before entering for rocks, holes or other obstacles which may cause you to overturn or become stuck or submerged.

Observe the following rules for operating the vehicle in water.



A. Axle Cap

⚠ WARNING

Operating the vehicle in rivers or streams where water is flowing quickly can cause the tires to lose traction and allow the vehicle to be swept into the current. Never operate the vehicle in fast-flowing water or in water deeper than the bottom edge of the axle caps.

After prolonged exposure to water, the wheel bearings may require relubrication or replacement.

Wash the vehicle in fresh water if it has been exposed to salt water or operated in muddy conditions.

⚠ WARNING

Wet brakes provide greatly reduced efficiency and could lead to an accident and injury. After operation in water, always apply the brakes long enough for friction to dry the linings. Also, the brake that gets wet may wear out faster. Check for brake wear more frequently if the vehicle is used in water.

Remember:

- Avoid driving through water whenever possible.
- Don't drive in deep and fast moving water.
- Dry out the brakes.

NOISE AND VIBRATION CONTROL INFORMATION

Control Information

Noise Level

Acceleration	dB (A)
Driver's Ear	dB (A)

Vibration Level

Steering Wheel	m/S²
Seat	m/S²
Seat Back	m/S²

NOTE

○ *Noise and vibration levels of your MULE are shown in your English OM, titled "NOISE AND VIBRATION CONTROL INFORMATION". Refer to the relevant page and copy those data values into the space provided in this page.*

Please Do Not Tamper with Noise Control System

To minimize the noise emissions from this product, Kawasaki has equipped it with effective intake and exhaust silencing systems. They are designed to give optimum performance while maintaining a low noise level. Please do not remove these systems, or alter them in any way which results in an increase in noise level.

MAINTENANCE AND ADJUSTMENT

The maintenance and adjustments outlined in this chapter are easily carried out and must be done in accordance with the Periodic Maintenance Chart to keep the Mule in good running condition. **The initial maintenance is vitally important and must not be neglected.**

If you are in doubt as to any adjustment or vehicle operation, please ask your authorized kawasaki dealer to check the Mule.

Please note that Kawasaki cannot assume any responsibility for damage resulting from incorrect maintenance or improper adjustment done by the owner.

Periodic Maintenance Chart

(for KAF400)

In addition to the following items, always perform the Daily Safety Checks listed in the HOW TO OPERATE chapter.

● = Clean, adjust, lubricate, replace parts as necessary.
D = Service to be performed by an authorized Kawasaki Dealer.
* = Service more frequently when operated in mud, dust, or other harsh riding conditions.

OPERATION	FREQUENCY			
	Whenever comes first ➡ / ⬇ Every	First Service	Regular Service	
		After 50 hrs. or 1 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use
ENGINE				
Converter belt - check*			D	
Converter driven pulley shoe - check*				D
Converter air cleaner element - clean*		●	●	
Converter dust or water - drain*				●
Fuel filter - change*				●
Fuel system cleanliness - check*				●
Air cleaner element - clean*		●	●	
Spark plug - clean and gap			●	
Valve clearance - check		D		D
Engine oil - change*	1 year	●	●	

OPERATION	FREQUENCY			
	Whenever comes first ➡ ⬇ Every	First Service	Regular Service	
		After 50 hrs. or 1 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use
Oil filter - replace*		●		●
Throttle pedal play - check		●		●
Idle speed - adjust		●	●	
Spark arrester - clean			●	
Fuel hose - replace	4 years (D)			
Fuel hoses and connections- check		D	D	
CHASSIS				
Steering - check		●	●	
Steering and axle shaft joint dust boots - check		D	D	
Brake pedal play - check*		●	●	
Parking brake lever - check		●	●	
Brake hose and pipe - check		D	D	
Brake fluid level - check		●	●	
Brake wear - check*			D	
Tire wear - check*		●	●	
Brake light switch - check		●	●	
Battery - check*			●	

OPERATION	FREQUENCY			
	Whenever comes first ➡ / ⬇ Every	First Service	Regular Service	
		After 50 hrs. or 1 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use
Seat belt - check			●	
General lubrication - perform*			D	
Bolts, nuts, and fasteners tightness - check		D	D	
Wheel nuts tightness - check		●	●	
Front final gear case oil and transmission case oil - change*	1 year	●		●
Brake fluid - change	2 years (D)			
Brake master cylinder cup and dust seal - replace	2 years (D)			
Brake wheel cylinder assembly -replace	2 years (D)			
Brake hose - replace	4 years (D)			

(for KAF950)

In addition to the following items, always perform the Daily Safety Checks listed in the HOW TO OPERATE chapter.

● = Clean, adjust, lubricate, replace parts as necessary.
D = Service to be performed by an authorized Kawasaki Dealer.
* = Service more frequently when operated in mud, dust, or other harsh riding conditions.

OPERATION	FREQUENCY					
	Whenever comes first ➡ / ⬇ Every	First Service	Regular Service			
		After 50 hrs. or 1 000 km of use	Every 100 hrs. or 2 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use	Every 800 hrs. or 16 000 km of use
ENGINE						
Converter belt - check*				D		
Converter drive belt deflection -inspect*				D		
Converter driven pulley shoe - check*					D	
Converter air cleaner element - clean*		●		●		
Valve clearance - check					D	
Engine oil - change*	1 year	●	●			
Oil filter - replace		●		●		
Throttle pedal play - check		●			●	
Idle speed - adjust		●		●		

OPERATION	FREQUENCY					
	Whenever comes first ➡ ⬇ Every	First Service	Regular Service			
		After 50 hrs. or 1 000 km of use	Every 100 hrs. or 2 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use	Every 800 hrs. or 16 000 km of use
Fuel hose - replace	4 years (D)					
Fuel filter element - change*						●
Fuel filter water - drain*			●			
Fuel hoses and connections - check *		D		D		
Spark arrester - clean				●		
Radiator - clean*		●		●		
Radiator hoses and connections - check*	1 year	D			D	
Coolant - change	2 years (D)					
Cooling fan belt - check				D		
CHASSIS						
Steering - check		●		●		
Steering joint dust boots - check		D		D		
Brake pedal play - check*		●		●		
Brake fluid level - check		●		●		
Parking brake lever - check		●		●		

OPERATION	FREQUENCY					
	Whenever comes first ➡ / ⬇ Every	First Service	Regular Service			
		After 50 hrs. or 1 000 km of use	Every 100 hrs. or 2 000 km of use	Every 250 hrs. or 5 000 km of use	Every 500 hrs. or 10 000 km of use	Every 800 hrs. or 16 000 km of use
Brake hose and pipe - check		D		D		
Brake wear - check*				D		
Tire wear - check*		●		●		
Battery - check				●		
Brake light switch - check		●		●		
Seat belt - check				●		
General lubrication - perform*				D		
Bolts, nuts, and fasteners tightness - check		D		D		
Wheel nuts tightness - check		●		●		
Front final gear case oil and transmission case oil - change*	1 year	●			●	
Brake fluid - change	2 years (D)					
Brake master cylinder cup and dust seal - replace	2 years (D)					
Brake wheel cylinder assembly - replace	2 years (D)					
Brake hose - replace	4 years (D)					

Engine Oil

In order for the engine to function properly, maintain the engine oil at the proper level, and change the oil and oil filter in accordance with the Periodic Maintenance Chart. Not only do dirt and metal particles collect in the oil, but the oil itself loses its lubricative quality if used too long.

⚠ WARNING

Vehicle operation with insufficient, deteriorated, or contaminated engine oil will cause accelerated wear and may result in engine seizure, accident, and injury. Check the oil level before each use and change the oil and filter according to the periodic maintenance chart in the owner's manual.

Oil Level Inspection

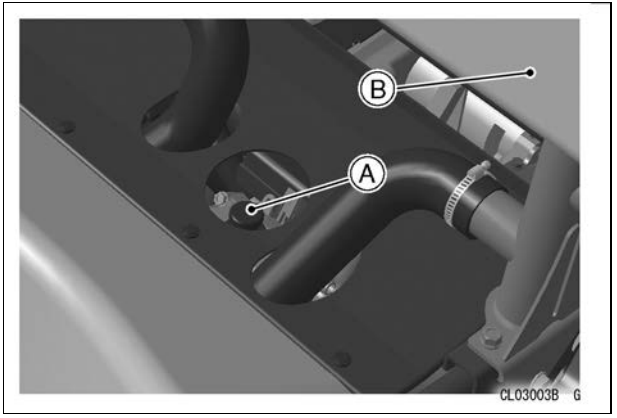
- If the oil has just been changed, start the engine and run it for several minutes at idle speed. This fills the oil filter with oil. Stop the engine, then wait several minutes until the oil settles.

NOTICE

Racing the engine before the oil reaches every part can cause engine damage.

- If the vehicle has just been used, wait several minutes for all the oil to drain down.
- Park the vehicle on level ground.
- Pull up on the rear edge of the seat.

(for KAF400)

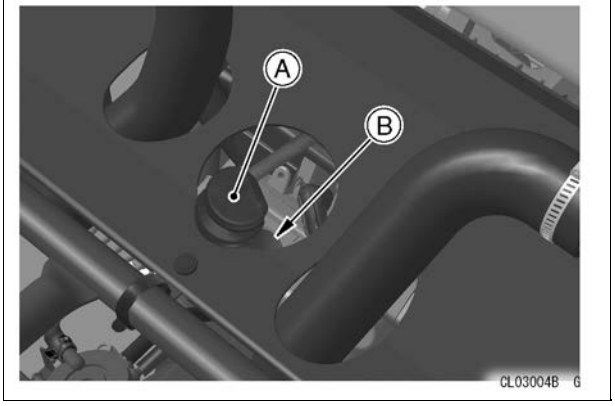


A. Dipstick & Oil Filler Hole
B. Seatback

- Pull up the dipstick, wipe it dry, and insert it into the tube securely.

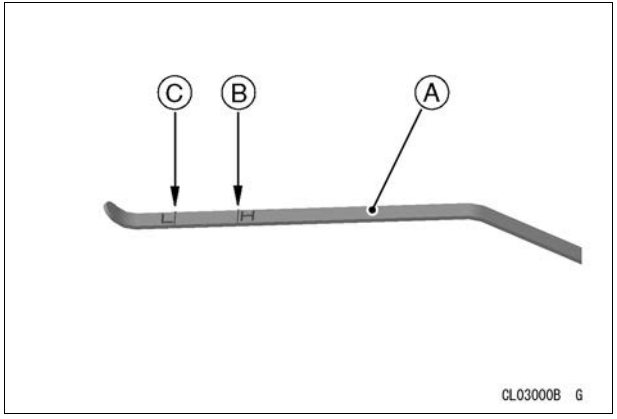
NOTE

○ *It is important to insert the dipstick with its chamfered cap edge rearwards.*



A. Dipstick
B. Oil Filler Hole

- Pull out the dipstick and check the oil level. The oil level should be between the “F” (Full) and “L” (Low) lines on the dipstick.
- Reinsert the dipstick until its cap bottom touches the oil filler hole top.

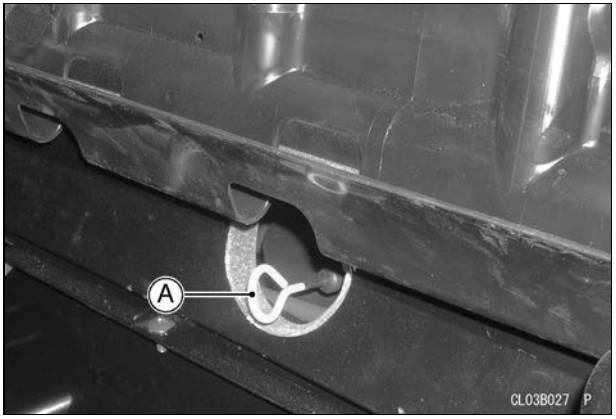


A. Dipstick
B. “H” (High) Line
C. “L” (Low) Line

- If the oil level is too high, remove the excess oil, using a syringe or other suitable device.
- If the oil level is too low, unscrew the oil filler cap and add the correct amount of oil. Use the same type and brand of oil that is already in the engine.
- Instal the dipstick

(for KAF950)

- Pull the dipstick out of the dipstick tube, wipe it dry, and insert it into the tube securely.



A. Dipstick

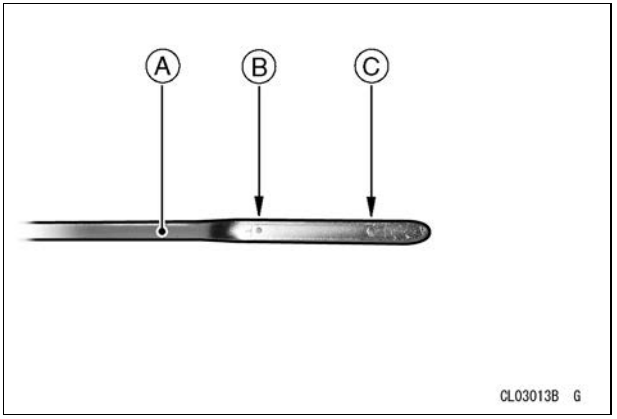
- Pull out the dipstick and check the oil level. The oil level should be between the F (full) and L (low) holes on the dipstick.

NOTICE

To avoid the engine damage, do not fill the engine oil above the full level.

NOTE

○ *Insert dipstick into tube holding its tip as far as possible so that it will not bend.*



A. Dipstick
B. F (Full) Hole
C. L (Low) Hole

- If the oil level is too high, remove the excess oil, using a syringe or other suitable device through the dipstick tube.
- If the oil level is too low, unscrew the oil filler cap and add slowly the correct amount of oil. Use the same type and brand of oil that is already in the engine.

(for KAF950G only)

NOTE

○ *If the vehicle is in 2-person mode, first raise the cargo bed, support with the rod and pull the stored rear seat and place it onto the engine.*

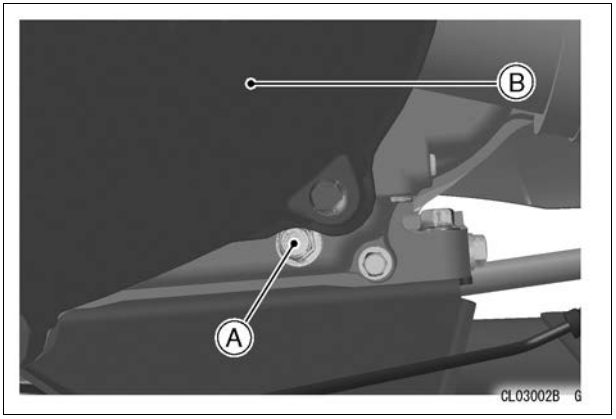


A. Rear Seat (Folded)
B. Dipstick

(for KAF400)

Oil and/or Oil Filter Change

- Warm up the engine thoroughly, and then stop the engine.
- Place an oil pan beneath the engine.
- Remove the drain plug. on the right side at the bottom of the engine.
- Remove the dipstick.



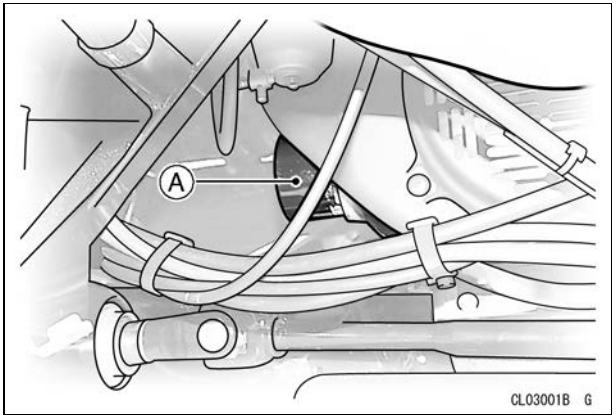
A. Drain Plug
B. Torque Converter Case

- When the vehicle held level, let the oil drain completely.

⚠ WARNING

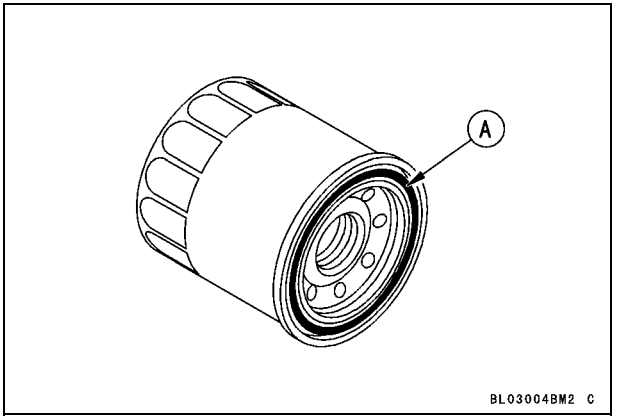
Motor oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

- If the oil filter is to be changed, first lift the cargo bed to support it with the rod, and then remove the oil filter cartridge and replace it with a new one.



A. Cartridge

- Apply a thin film of oil to the packing and screw the cartridge in until the packing touches the engine, then turn it 3/4 turn.



A. Gasket

- Install the drain plug with its gasket. Tighten it to the specified torque.

NOTE

○ *Replace any damaged gaskets with new ones.*

- Fill the engine up to the "F" (Full) line on the dipstick with good quality motor oil as specified in the table.
- Start the engine and check for oil leakage.

Tightening Torque

Drain Plug:	6.9 N·m (61 kgf·m)
Cartridge:	9.8 N·m (1 kgf·m)

Recommended Engine Oil

Grade:	API SG, SH, SJ, SL or SM with JASO MA, MA1 or MA2
Viscosity:	SAE 10W-40

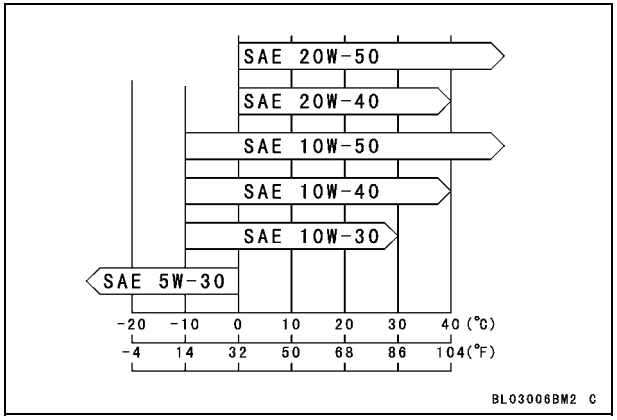
NOTE

○ *Do not add any chemical additive to the oil. Oils fulfilling the above requirements are fully formulated and provide adequate lubrication for both the engine and the clutch.*

Engine Oil Capacity

when filter is not removed	0.85 L
when filter is removed	1.4 L

Although 10W-40 engine oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area.

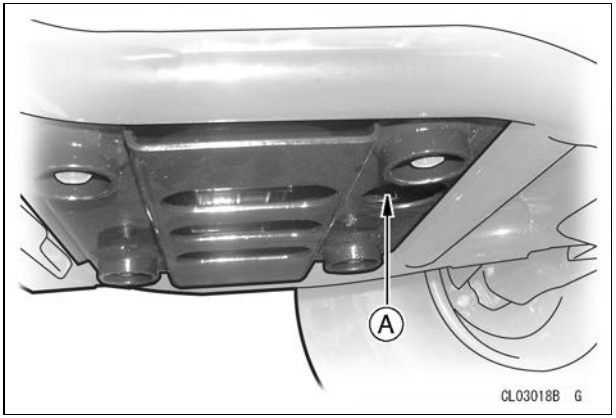


(for KAF950)

Oil and/or Oil Filter Change

When changing or adding oil, use the chart shown in the following pages to select the correct viscosity grade for the temperature expected.

- Warm up the engine thoroughly, and then stop the engine.
- Place an oil pan beneath the engine.
- Remove the drain plug.



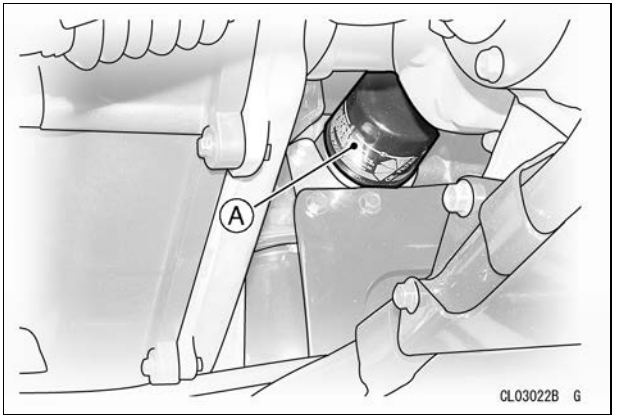
A. Drain Plug

- Let the oil drain completely.

⚠ WARNING

Motor oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

- If the oil filter is to be changed, remove the oil filter cartridge from the lower side of the engine and replace it with a new one.



A. Cartridge

- Apply a thin film of oil to the packing and screw the cartridge in until the gasket touches the engine, then tighten it one more turn.
- Install the drain plug with new gasket. Tighten it to the specified torque.

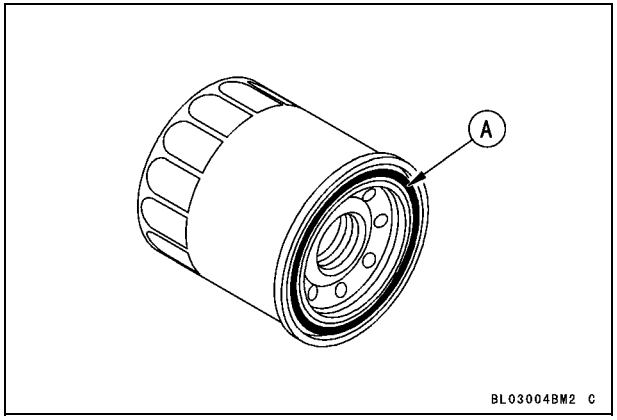
Tightening Torque

Drain Plug: 34 N·m (3.5 kgf·m)

(for KAF950G only)

NOTE

- *In 4-person mode, first fold the rear seat and push its assembly into the stored position, and then raise the cargo bed and support it with the rod.*
- *In 2-person mode, raise the cargo bed and support it with the rod.*



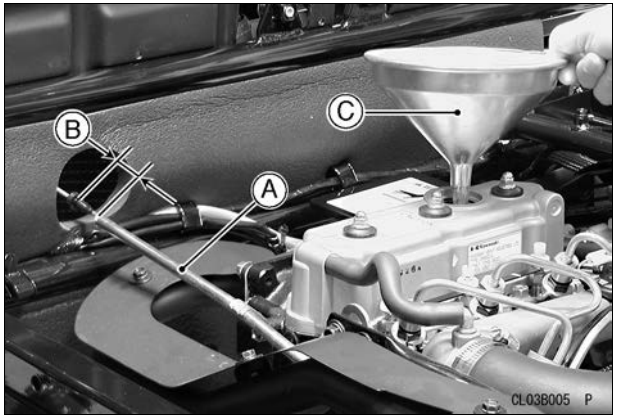
A. Gasket

- Fill the engine up to the F (full) hole on the dipstick with good quality engine oil as specified in the following table.
- Start the engine and check for oil leakage.

NOTE

○ *When filling oil to the filler hole in the cylinder head cover, provide the following measures to allow the air in the crankcase to escape.*

1. Pull the engine oil dipstick out a little. (about 5 cm).
2. Raise the filling funnel a little from the cylinder head.



A. Dipstick tube
B. about 5 cm or 2 inches
C. Funnel

NOTE

○ *Park the vehicle on a level surface and fill engine oil slowly and evenly up to the specified level. DO NOT OVERFILL.*

NOTICE

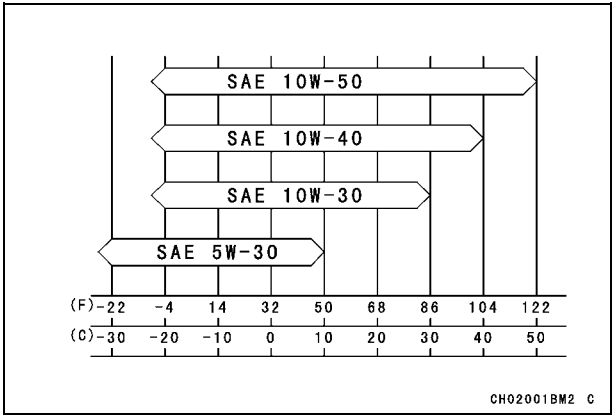
If the oil level in the cylinder head cover gets too high because of filling too fast or filling too much (overfilling), oil may overflow from the filler hole and/or may flow through the crankcase ventilation tube into the intake manifold. Oil in the intake manifold may flow into the combustion chambers and cause hydraulic lock, resulting in severe engine damage.

Recommended Engine Oil

Grade:	API CF or CF-4 class
Viscosity:	SAE 10W–40

Depending on the atmospheric temperature of your riding area, the engine oil viscosity should be changed according to the following chart:

STARTING TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE



Engine Oil Capacity

When filter is not removed	3.0 L
When filter is removed	3.3 L

Front Final Gear Case Oil

(for KAF400A & 950)

In order for the differential, pinion, and ring gears to function properly, check the oil level and change the oil in accordance with the Periodic Maintenance Chart.

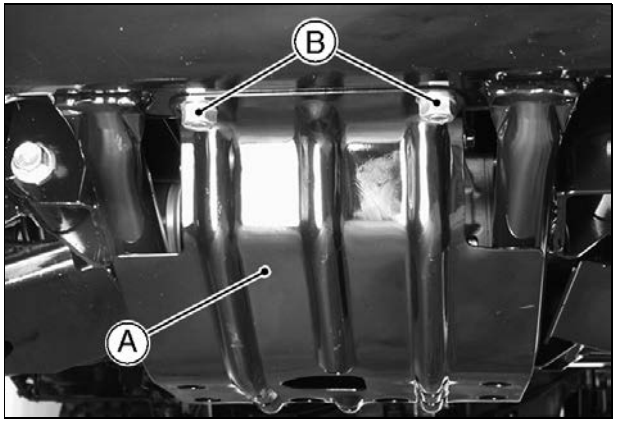
⚠ WARNING

Vehicle operation with insufficient, deteriorated, or contaminated oil causes accelerated wear of the differential, pinion, and ring gears and may result in seizure. Seizure can lock the front and rear wheels and skid the front and rear tires, with consequent loss of control. Check the differential oil according to the periodic maintenance chart.

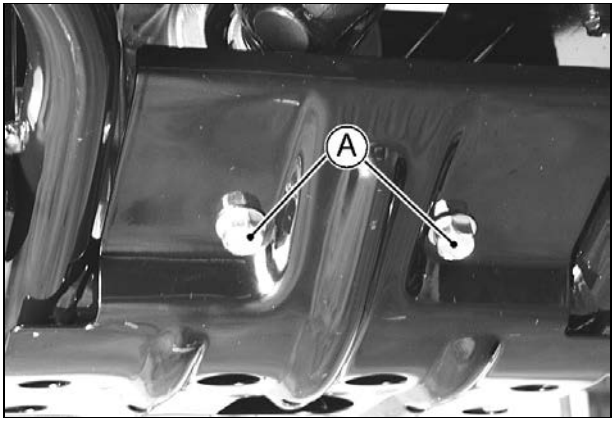
Oil Level Inspection

- Remove the front final gear case guard by removing the mounting bolts and nuts.

(for KAF950)



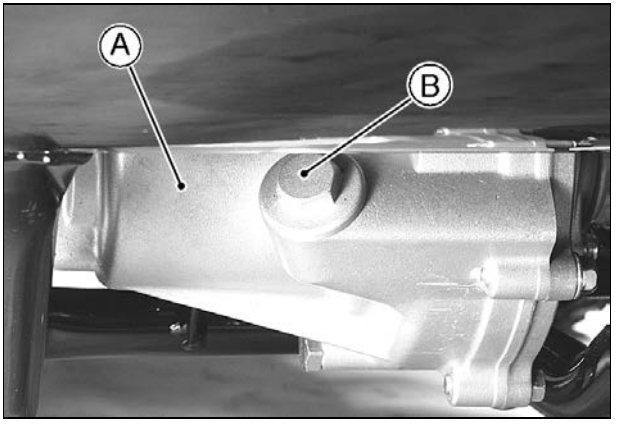
A. Guard
B. Nuts



A. Bolts

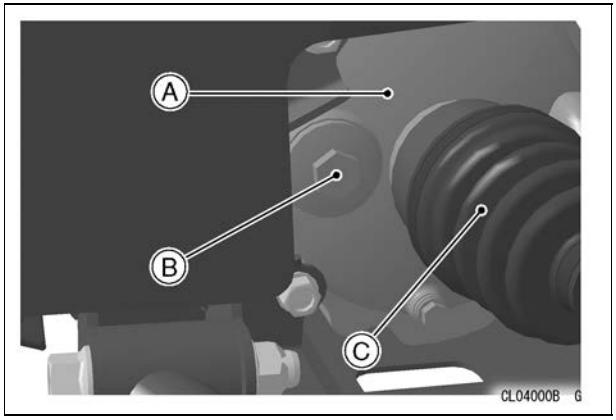
- With the vehicle level front-to-rear and side-to-side, remove the filler cap from the front final gear case.

(for KAF950)



A. Front Final Gear Case
B. Filler Cap

(for KAF400A)



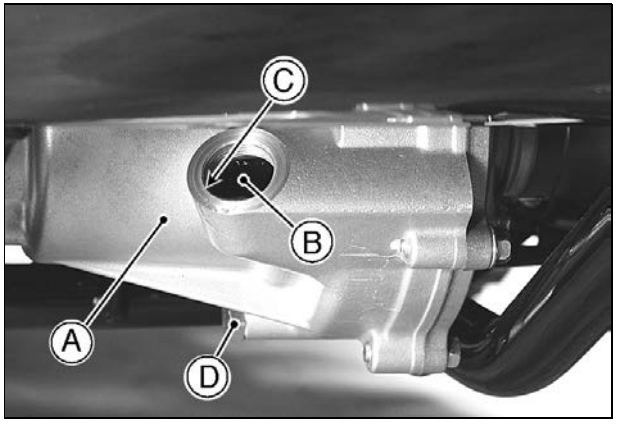
A. Front Final Gear Case
B. Filler Cap (on the left side)
C. Front Axle

NOTICE

Be careful not to allow any dirt or foreign materials to enter the gear case.

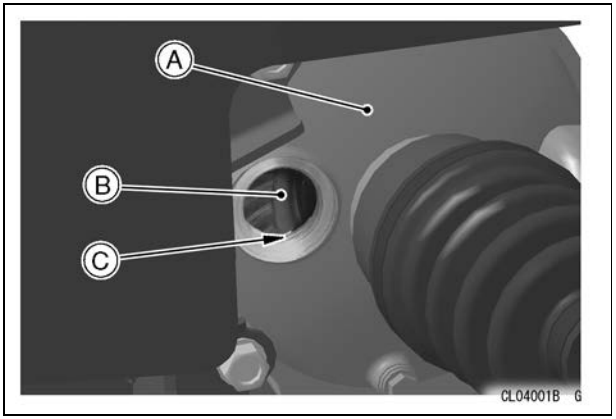
- Check the oil level. The oil level should come to the bottom thread of the filler opening. If it is low, add oil through the oil filler opening as necessary.

(For KAF950)

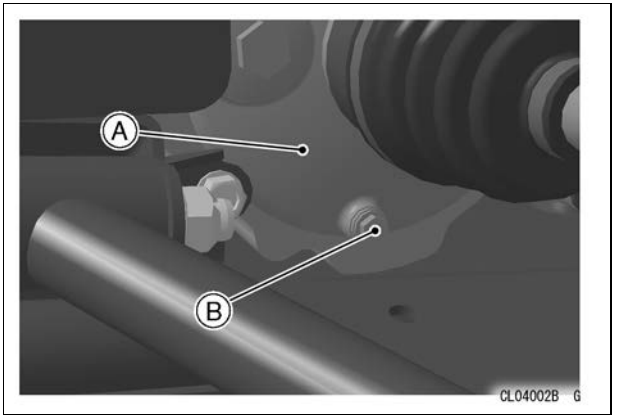


A. Front Final Gear Case
B. Filler Opening
C. Bottom Thread
D. Drain Plug

(for KAF400A)



A. Front Final Gear Case
B. Filler Opening
C. Bottom Thread



A. Front Final Gear Case
B. Drain Plug

● Install the filler cap.

Tightening Torque

Filler Cap:	N·m (kgf·m)

NOTE

○ *Use the same type and brand of oil that is already in the gear case.*

Oil Change

NOTE

○ *Before draining the oil, warm it up by running the vehicle. Warm oil drains easily and picks up any sediment.*

- Remove the front final gear case guard.
- With the vehicle level, place an oil pan beneath the gear case.
- Remove the filler cap and drain plug.

⚠ WARNING

Gear case oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

⚠ WARNING

Oil on tires can make them slippery which can cause an accident and injury. When draining or filling the gear case, be careful that no oil gets on the tires or rims. Clean off any oil that inadvertently gets on them with soap and water.

- After the oil has completely drained out, install the drain plug and gasket. If the gasket is damaged, replace it with a new one.

Tightening Torque

Drain Plug:	N·m (kgf·m)

- Fill the gear case up to the bottom thread of the filler opening with a good quality oil as specified in the table.

Front Final Gear Case Oil

Oil Capacity	about mL
Oil Type	API "GL-5" or API "GL-6" Hypoid gear oil for Limited Slip Differentials, SAE 85W-140, SAE90 or SAE140

- Install the filler cap and gear case guard.

NOTE

○ *Tightening torque values for filler cap and drain plug are shown in your English OM, titled "Front Final Gear Case Oil" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those data values into the space provided in this page.*

Transmission Case Oil

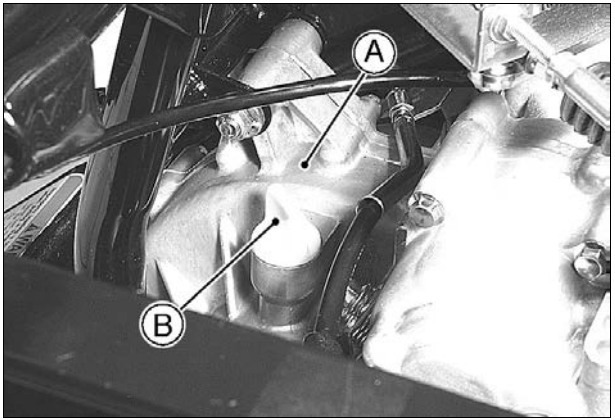
In order for the transmission, differential, pinion, and ring gears to function properly, check the oil level and change the oil in accordance with the Periodic Maintenance Chart.

⚠ WARNING

Vehicle operation with insufficient, deteriorated, or contaminated oil causes accelerated wear of the transmission, differential, pinion, and ring gears and may result in seizure. Seizure can lock the rear wheels and skid the rear tires, with consequent loss of control. Check the differential oil according to the periodic maintenance chart.

Oil Level Inspection

- Park the vehicle on level ground.
- Lift the cargo bed and support it with the rod.
- Unscrew the oil filler plug, wipe its dipstick dry, and insert it into the filler hole but DO NOT SCREW IT IN.

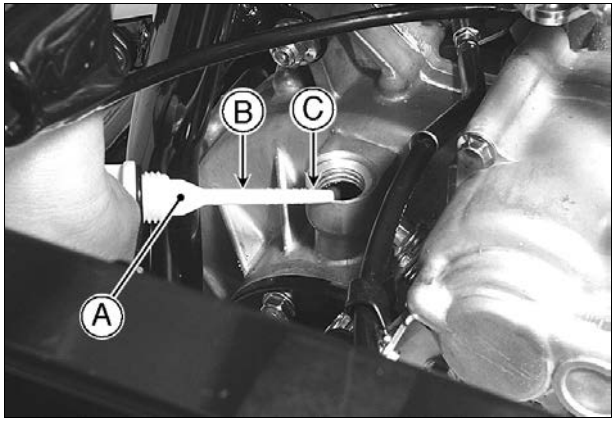


A. Transmission Case
B. Oil Filler Plug

NOTICE

Be careful not to allow any dirt or foreign materials to enter the transmission case.

- Pull out the dipstick and check the oil level. The oil level should be between the "H" (High) and "L" (Low) lines on the dipstick.



A. Dipstick
B. "H" (High) Line
C. "L" (Low) Line

- If the oil level is too high, remove the excess oil, using a syringe or other suitable device, through the oil filler opening.
- If the oil level is too low, add the correct amount of oil.
- Install the filler plug.

NOTE

○ *Use the same type and brand of oil that is already in the transmission case.*

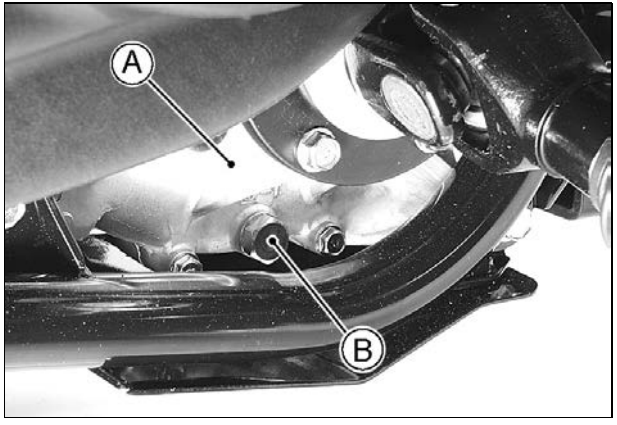
Oil Change

NOTE

○ *Before draining the oil, warm it up by running the vehicle. Warm oil drains easily and picks up any sediment.*

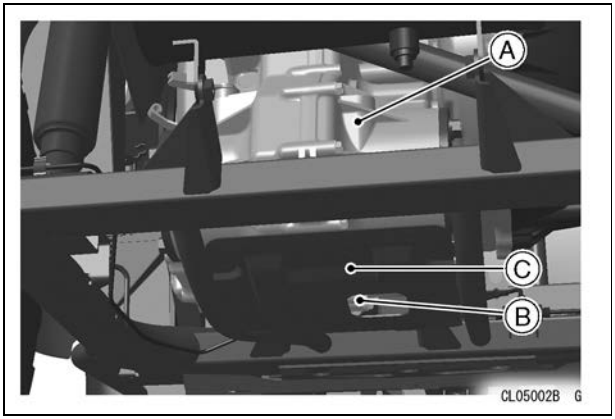
- With the vehicle level, place an oil pan beneath the transmission case.
- Remove the drain plug.

(for KAF950)



A. Transmission Case
B. Drain Plug

(for KAF400)



A. Transmission Case
B. Drain Plug
C. Guard Plate

⚠ WARNING

The exhaust system can get extremely hot during normal operation and cause serious burns. To avoid a serious burn, never touch a hot muffler or exhaust pipe during oil draining.

- Lift the cargo bed and support it with the rod.
- Remove the filler plug.

⚠ WARNING

Oil on tires can make them slippery which can cause an accident and injury. When draining or filling the transmission case, be careful that no oil gets on the tires or rims. Clean off any oil that inadvertently gets on them with soap and water.

- After the oil has completely drained out, install the drain plug with its gasket. Tighten it to the specified torque. If the gasket is damaged, replace it with a new one.
- Fill the transmission case up to the "H" (High) line on the dipstick with a good quality oil as specified in the table.

Tightening Torque

Drain Plug:	N·m (kgf·m)

Transmission Case Oil Type

API "GL-5" Hypoid gear oil above 5°C SAE 90 below 5°C SAE 80

Transmission Case Oil Capacity

L

- Install the filler plug.

NOTE

○ *Tightening torque values for transmission case drain plug and transmission case oil capacity are*

shown in your English OM, titled "Transmission Case Oil" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those data values into the space provided in this page.

Cooling Fan

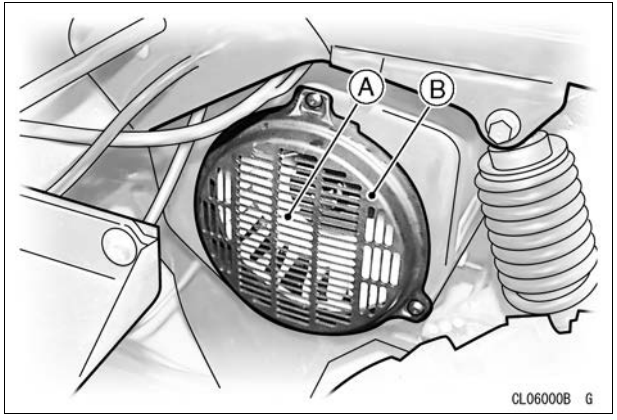
(for KAF400)

The engine is cooled by the cooling fan attached to the left side of the engine.

Check and clean the screen for mud and other debris.

⚠ WARNING

A spinning fan can cause serious injury. To avoid injury when checking and cleaning the screen, turn off the ignition switch and be sure the fan has stopped turning.



A. Cooling Fan
B. Screen

Cooling System

(for KAF950)

⚠ WARNING

The cooling system can get extremely hot during normal operation and cause serious burns. Do not touch the radiator when it is hot, nor open the radiator cap. Hot coolant inside will cause severe burns.

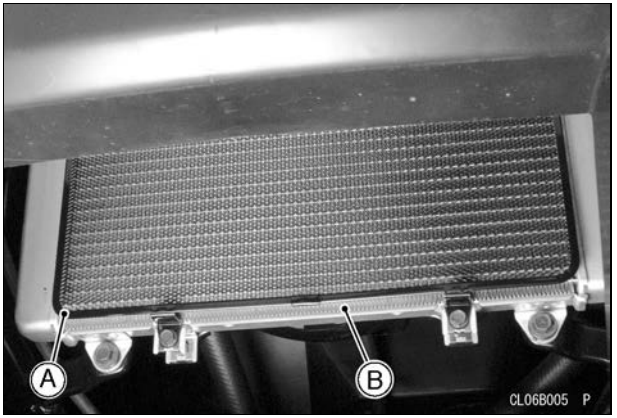
Radiator and Cooling Fan

Check and clean the grille, screen and radiator fins for obstruction by insects or mud in accordance with the Periodic Maintenance Chart. In dusty areas, the radiator should be cleaned more frequently than the recommended interval.

⚠ WARNING

The cooling fan turns on automatically, even with the ignition switch off. Keep your hands and clothing away from the fan blades at all times.

- Lift the front cargo hood up. Refer to the "Front Cargo Compartment" section in the "General Information" chapter.



A. Screen
B. Radiator

- Clean the screen, and radiator fins of any obstructions with a stream of low-pressure water.
- If insects or mud can not be completely removed, it should be cleaned by an authorized Kawasaki dealer.

NOTICE

Using high-pressure water, as from a car wash facility, could damage the radiator fins and impair the radiator's effectiveness.
Do not obstruct or deflect airflow through the radiator by installing unauthorized accessories in front of the radiator or behind the cooling fan. Interference with the radiator airflow can lead to overheating and consequent engine damage.

Coolant

Coolant absorbs excessive heat from the engine and transfers it to the air at the radiator. If the coolant level becomes low, the engine overheats and may suffer damage. Check the coolant level each day before operating the vehicle, and replenish coolant if the level is low. Change the coolant in accordance with the Periodic Maintenance Chart.

NOTE

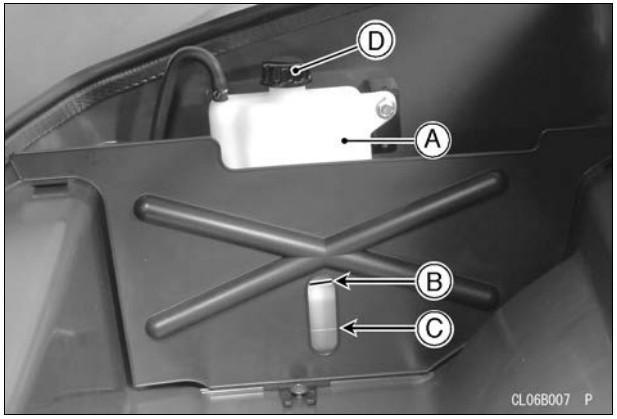
○ *A permanent type of antifreeze is installed in the cooling system when shipped. It is colored green and contains ethylene glycol. It is mixed at 50% with water and has a freezing point of –35°C (–31°F).*

Coolant Level Inspection

- Situate the vehicle on level ground.
- Lift the front cargo hood up. Refer to the "Front Cargo Compartment" section in the "General Information" chapter.
- Check the coolant level through the coolant level gauge on the reserve tank. The coolant level should be between the "F" (Full) and "L" (Low) marks.

NOTE

○ *Check the level when the engine is cold (room or atmospheric temperature).*



A. Reserve Tank
B. "F" (Full) Mark
C. "L" (Low) Mark
D. Cap

- If the amount of coolant is insufficient, unscrew the cap from the reserve tank and add coolant through the filler opening to the "F" (Full) mark. Install the cap.

(for KAF950)

Recommended Coolant Solution

Coolant Mixture Ratio:

Water 50%: Antifreeze 50% (1 : 1)

Recommended Antifreeze:

Permanent type antifreeze (ethylene glycol plus corrosion and rust inhibitor chemicals for cast-iron engines and aluminum radiators).

NOTE

○ *In an emergency you can add water alone to the coolant reserve tank, however it must be returned to the correct mixture ratio by the addition of anti-freeze concentrate as soon as possible.*

NOTICE

If coolant must be added often, or the reserve tank completely runs dry, there is probably leakage in the system. Have the cooling system inspected by your authorized Kawasaki dealer.

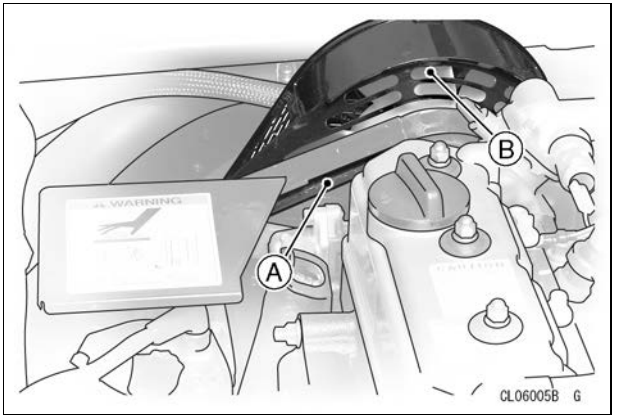
Coolant Change

Have the coolant changed by an authorized Kawasaki dealer.

Cooling Fan Belt(for KAF950)

The fan belt will loosen and may crack after a period of use. Inspect it in accordance with the Periodic Maintenance Chart. It may break if operated without maintenance.

Inspection should be done by an authorized Kawasaki dealer.



A. Cooling Fan Belt
B. Cooling Fan

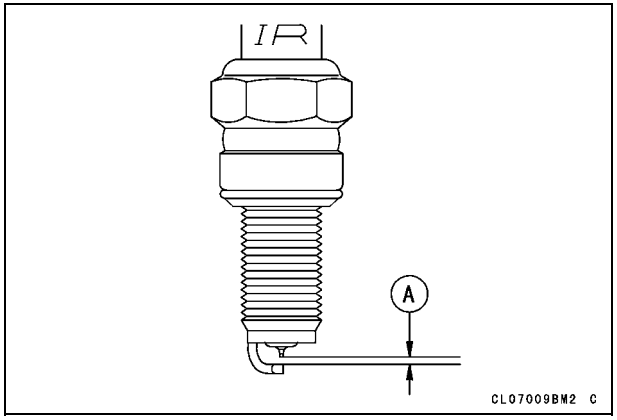
Spark Plugs

(for KAF400)

The standard spark plug is shown in the table. The spark plug should be taken out periodically in accordance with the Periodic Maintenance Chart for cleaning, inspection, and resetting of the plug gap.

Maintenance

If the plug is oily or has carbon built up on it, have it cleaned, preferably in a sand-blasting device, and then clean off any abrasive particles. The plug may also be cleaned using a high flash-point solvent and a wire brush or other suitable tool. Measure the gap with a wire-type thickness gauge, and adjust the gap if incorrect by bending the outer electrode. If the insulator is cracked, replace the plug. Use the standard plug.



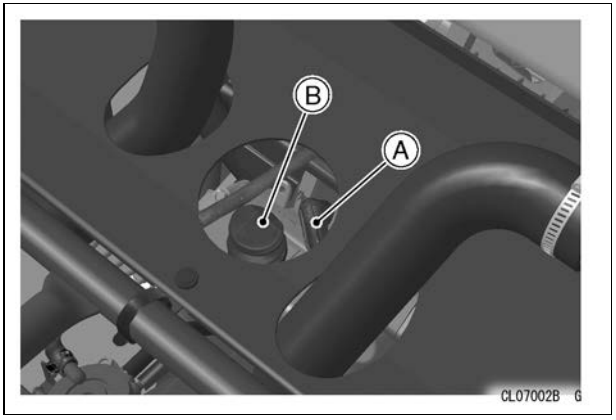
A. 0.7~ 0.8 mm (0.028 ~ 0.032 in.)

Spark Plug

Standard Plug	NGK BPR5ES
Plug Gap	0.7~ 0.8 mm
Tightening Torque	17 N·m (1.7 kgf·m)

Spark Plug Removal

- Raise the seat.
- Carefully pull the spark plug cap from the spark plug.



A. Spark Plug Cap
B. Engine Oil Dipstick Cap

● Unscrew the spark plug.

NOTE

○ *When installing the spark plug, fit the plug cap securely onto the spark plug, and pull the cap tightly to make sure that it is properly installed.*

Valve Clearance

Valve and valve seat wear decrease valve clearance, upsetting valve timing.

NOTICE

If valve clearance is left unadjusted, wear will eventually cause the valves to remain partly open; which lowers performance, burns the valves and valve seats, and may cause serious engine damage.

Valve clearance for each valve should be checked and adjusted in accordance with the Periodic Maintenance Chart.

Inspection and adjustment should be done by an authorized Kawasaki dealer.

Valve Clearance (EX & IN) : mm

NOTE

○ *Valve clearance values are shown in your English OM titled "Valve Clearance" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those values into the space provided in this page.*

Engine Air Cleaner

A clogged engine air cleaner restricts the engine's air intake, increasing fuel consumption, reducing engine power, and causing spark plug fouling.

⚠ WARNING

A clogged air cleaner may allow dirt and dust to enter the carburetor and the throttle may stick resulting in a hazardous operating condition. Clean the air filter according to the periodic maintenance chart; more often if the vehicle is used in extremely dusty conditions (KAF400).

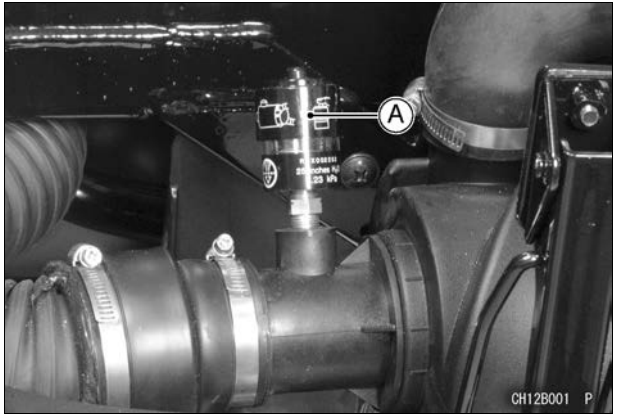
NOTICE

A clogged air cleaner may allow dirt and dust to enter the engine causing excessive wear and possible engine damage.

The air filter element should be cleaned in accordance with the Periodic Maintenance Chart. In dusty areas, the elements should be cleaned more frequently than the recommended interval.

(for KAF950)

The engine air filter restriction gauge shows whether the air cleaner is clogged. Whenever the red band shows in the gauge window, the air filter element should be cleaned. After servicing the air filter element, the restriction gauge should be reset by pushing the button at the end of the gauge.

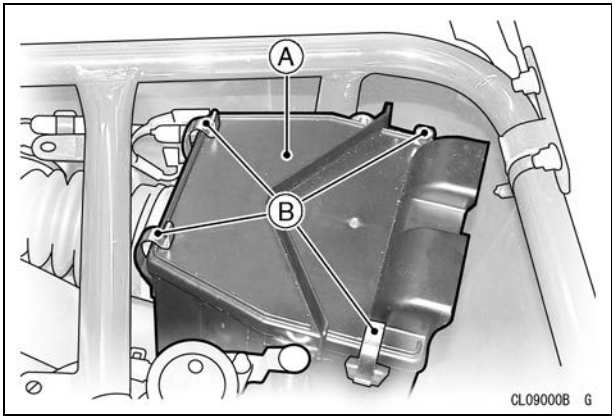


A. Air Filter Restriction Gauge

Element Removal

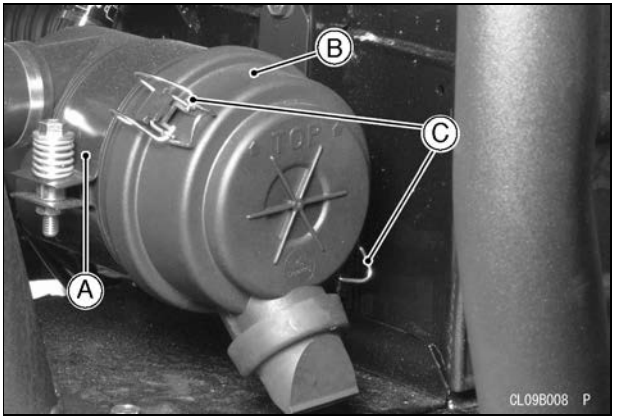
- Raise the seat.
- Pull up the snaps and remove the air cleaner housing cap from the housing.

(for KAF400)



A. Air Cleaner Housing Cover
B. Snaps

(for KAF950)



A. Air Cleaner Housing
B. Cap
C. Snaps

- Pull the air cleaner element out of the housing.
- Push a clean, lint-free towel into the air cleaner housing to keep dirt or other foreign material from entering.

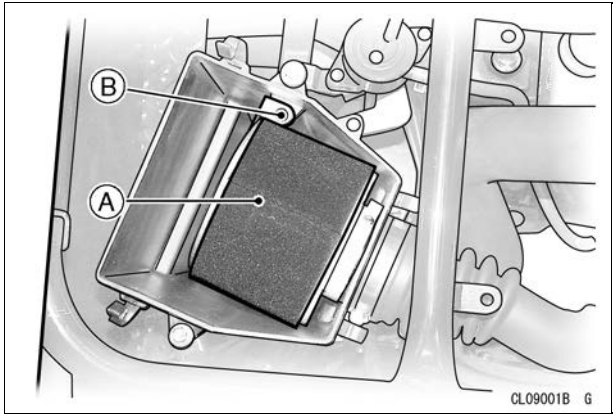
⚠ WARNING

If dirt or dust is allowed to pass through into the carburetor, the throttle may stick or become inoperative resulting in a hazardous operating condition (KAF400).

NOTICE

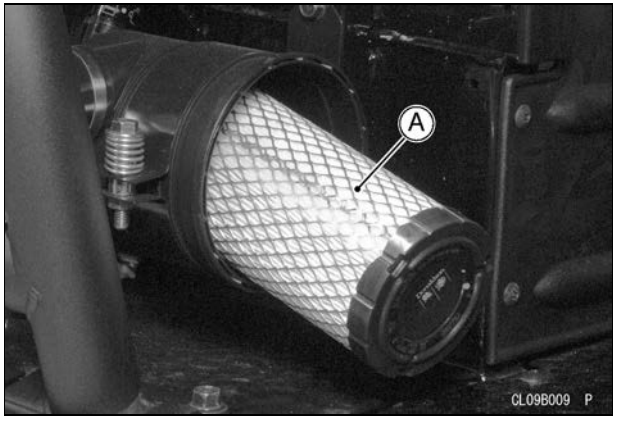
If dirt gets into the engine, excessive engine and possible engine damage may occur.

(for KAF400)



A. Element
B. Screw

(for KAF950)



A. Paper Element

NOTE

○ *Element installation is performed in the reverse order of removal.*
○ *Install the cap with its drain facing downward.*

Element Cleaning ***(for KAF950)***

- Remove the element (see Element Removal).
- Clean the paper element by tapping it lightly to loosen dust.
- Blow away the remaining dust by applying compressed air from the inside to the outside (from the clean side to the dirty side).
- Inspect the element material for damage. If any part of the element is damaged, the element must be replaced.

- The restriction gauge should be reset by pushing the button at the end of the gauge.

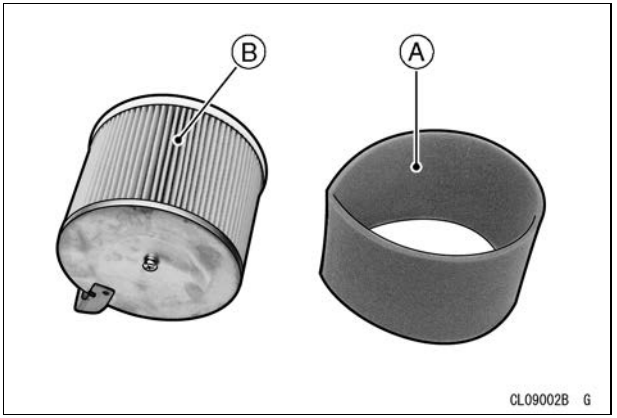
Element Cleaning ***(for KAF400)***

- Remove the element (see Element Removal).
- Clean the foam element in a bath of high flash-point solvent using a soft bristle brush.
- Squeeze it dry in a clean towel. Do not wring the element or blow it dry; the element can be damaged.
- Inspect the foam element for damage. If it is torn, punctured, or hardened, replace it.

NOTE

○ *Replace the foam element after cleaning it five times or if it is damaged.*

- Clean the paper element by tapping it lightly to loosen dust.
- Blow away the remaining dust by applying compressed air from the inside to the outside (from the clean side to the dirty side).
- Inspect the element material for damage. If any part of the element is damaged, the element must be replaced.



A. Urethane Foam Element
B. Paper Element

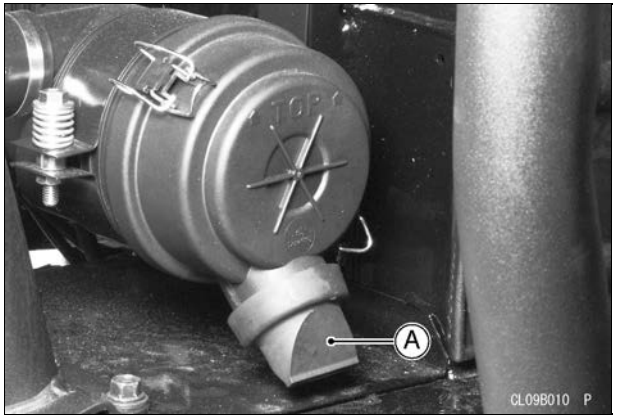
Dust and/or Water Inspection

(for KAF400)

- There is a plastic drain cap at the bottom of the air cleaner housing. If you see any dust and/or water accumulated in the housing, remove the drain cap and expel it.

(for KAF950)

- Push open the drain hose on the bottom of the air cleaner housing to expel dust and/or water accumulated inside.



A. Drain Hose (for KAF950)

Spark Arrester

This vehicle is equipped with a spark arrester approved for off-highway use by the U.S. Forest Service. It must be properly maintained to ensure its efficiency. Clean the spark arrester in accordance with the Periodic Maintenance Chart.

NOTICE

The spark arrester must be functioning properly to provide adequate fire protection.

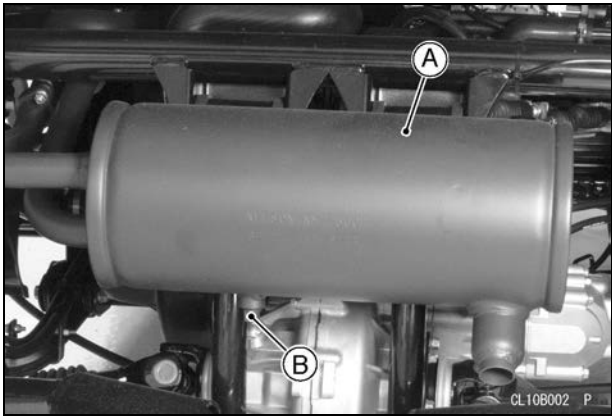
Spark Arrester Cleaning

⚠ WARNING

The muffler can become extremely hot during normal operation and cause severe burns. Since the engine must be running during this procedure, wear heat-resistant gloves while cleaning the spark arrester.

- Remove the drain plug from the muffler.

(for KAF950: Sample)



A. Spark Arrester (inside the muffler)
B. Drain Plug

- Apply the parking brake.
- In an open area away from combustible materials, start the engine with the gear shift lever in the "N" (Neutral) position.
- Raise and lower engine speed while tapping on the muffler with a rubber mallet until carbon particles are purged from the muffler.

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

- Stop the engine.
- Install the drain plug.

Throttle Pedal

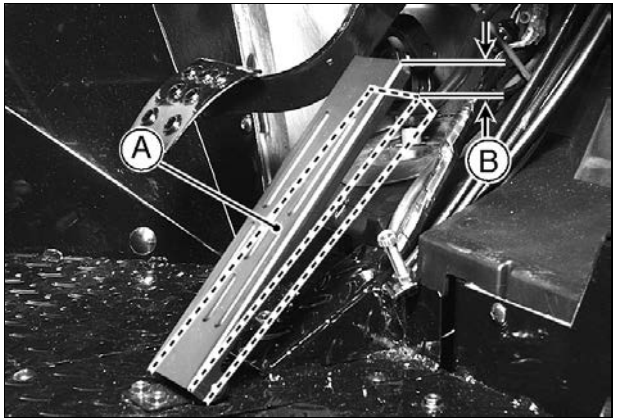
If the throttle pedal has excessive play due to either cable stretch or misadjustment, it will cause a delay in throttle response, especially at low engine speed. Also, the throttle may not open fully. If the throttle pedal has no play, the throttle may be hard to control, and the idle speed may be erratic. Check the throttle pedal play periodically in accordance with the Periodic Maintenance Chart, and adjust the play if necessary.

Throttle Pedal Play Inspection

- Apply the parking brake.
- Put the gear shift lever in the "N" (Neutral) position.
- Start the engine, and warm it up thoroughly.
- Measure the distance the throttle pedal moves before the engine begins to pick up speed. Free play should be ~ mm.

NOTE

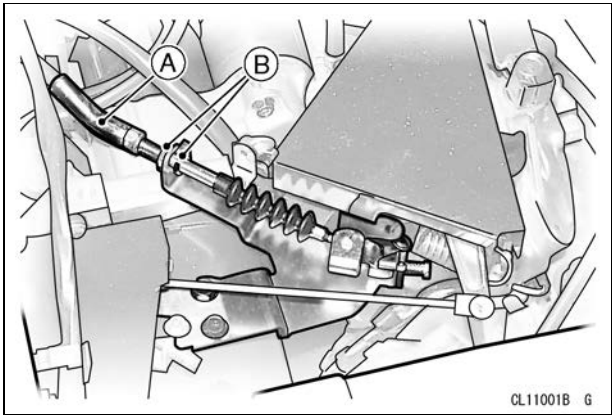
○ *Free play values are shown in your English OM titled "Throttle Pedal" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those values into the space provided in this page.*



A. Throttle Pedal
B. ~ mm

Throttle Pedal Play Adjustment
(for KAF400)

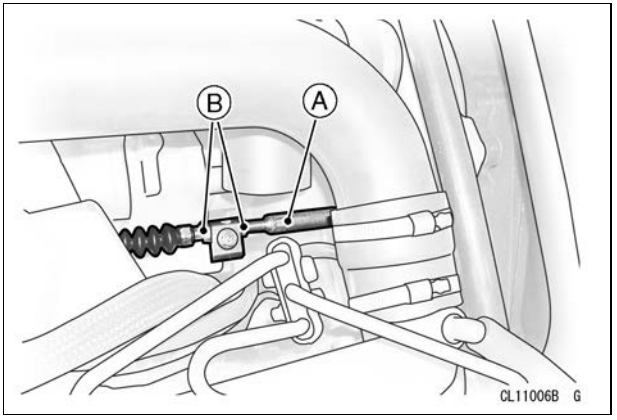
- Lift the cargo bed and support it with the rod.
- Loosen and turn the throttle cable mounting nuts located above the transmission case until the proper amount of throttle pedal play is obtained.



A. Throttle Cable
B. Mounting Nuts

- Tighten the mounting nuts securely.

(for KAF950)
- Lift the cargo bed and support it with the rod.
- Loosen the adjuster mounting nuts at the end of the throttle cable.
- Slide the adjuster until the proper amount of throttle pedal play is obtained.

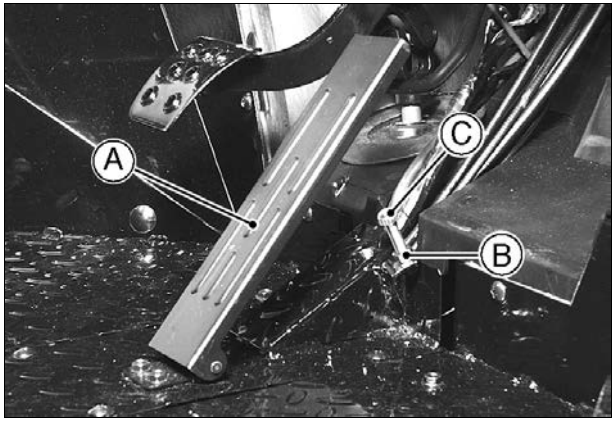


A. Throttle Cable Adjuster
B. Mounting Nuts

- Tighten the mounting nuts securely.

Throttle Pedal Stop Position Adjustment

The full throttle pedal stop position can be adjusted to prevent pulling the throttle cable more than required.
- Loosen the locknut.
- Screw in the throttle pedal stop bolt.
- Depress the throttle pedal until the speed control lever above the transmission case is in the fully opened position and hold it there.
- Turn the throttle pedal stop bolt until the bolt head lightly touches the bottom the throttle pedal.
- Tighten the locknut securely.



A. Throttle Pedal
B. Locknut
C. Throttle Pedal Stop Bolt

Choke Knob

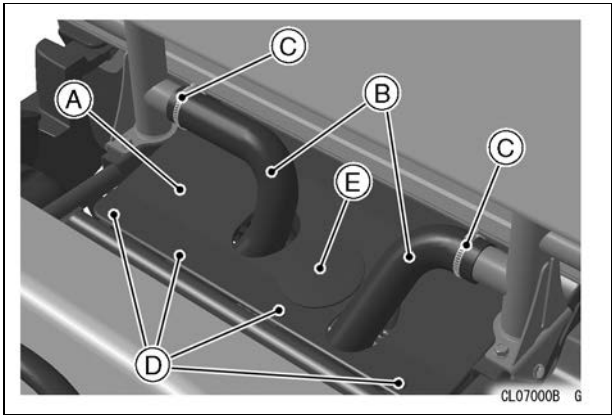
(for KAF400)

Pulling the choke knob makes the carburetor provide a rich mixture for easy starting when the engine is cold.

If starting is difficult or rich fuel mixture trouble occurs, inspect the choke knob, and adjust it if necessary.

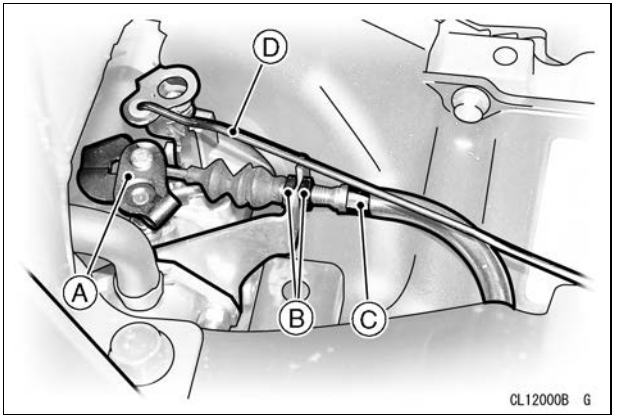
Inspection

- Check that the choke knob returns properly and that the inner cable slides smoothly. If there is any irregularity, have the choke cable checked by an authorized Kawasaki dealer.
- Lift the cargo bed and support it with the rod.
- Remove the guard plate by releasing the two air intake ducts and the 6 quick rivets.



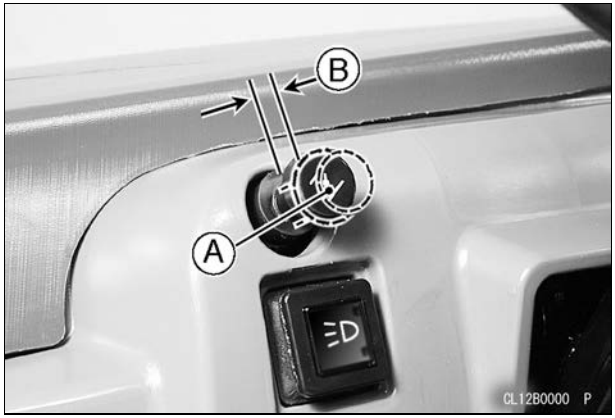
A. Guard Plate
B. Air Intake Ducts (2 p.c.s.)
C. Clamps
D. Quick Revets (6 p.c.s.)
E. Cap

- Make sure the choke knob is all the way into its released position.
- To determine the amount of choke cable play at the knob, pull the choke knob out until the starter lever at the carburetor starts to move; the amount of choke knob travel is the amount of cable play.



A. Starter Lever
B. Mounting Nuts
C. Choke Cable
D. Throttle Link

- The proper amount of play is 0 ~ 1 mm at the choke knob. If there is too much or too little play, adjust the choke cable.



A. Choke Knob
B. 0 ~ 1 mm

Adjustment

- Loosen and turn the choke cable mounting nuts next to the starter lever until the cable has the proper amount of play.
- Tighten the nuts after adjustment.

Carburetor

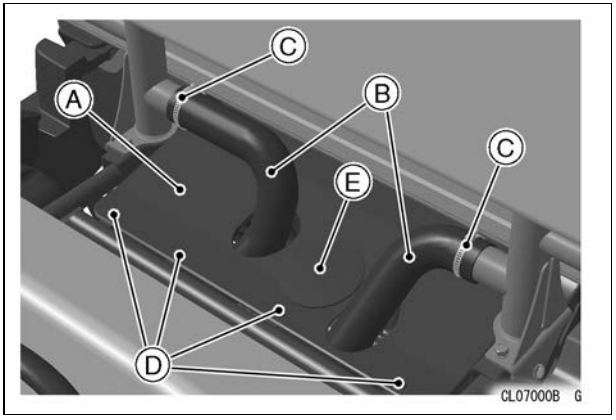
(for KAF400)

The idle speed adjustment should be performed in accordance with the Periodic Maintenance Chart or whenever the idle speed is changed.

The following procedure covers the idle speed adjustment.

Idle Speed Adjustment

- Apply the parking brake.
- Raise the seat.
- Remove the guard plate by releasing the two air intake ducts and the 6 quick rivets.



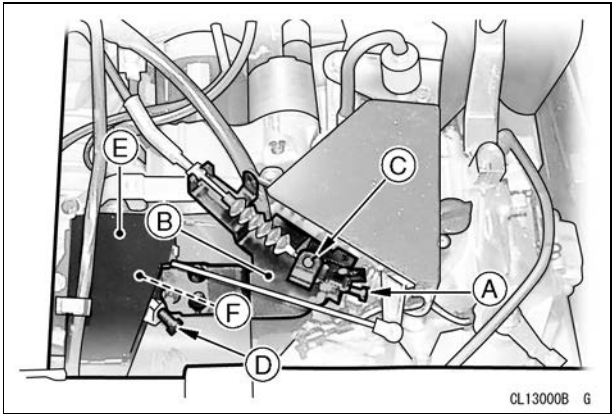
A. Guard Plate
B. Air Intake Ducts (2 p.c.s.)
C. Clamps (6 p.c.s.)
D. Quick Rivets (6 p.c.s.)
E. Cap

- Put the gear shift lever in the “N” (Neutral) position.
- Start the engine, and warm it up thoroughly.

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

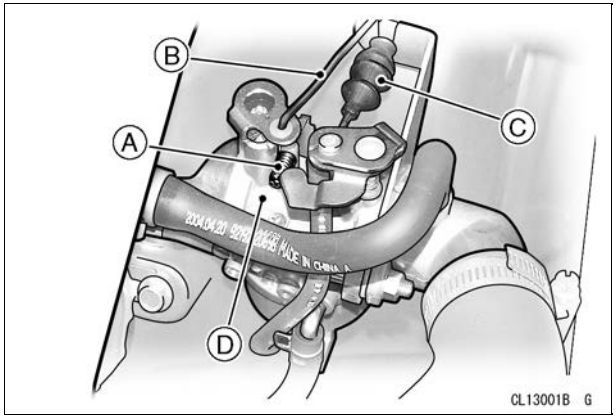
- Lift the cargo bed to support it with the hook.
- Remove the cover plate on the idle adjusting screw.
- Loosen the accel lever stopper screw on the base plate above the transmission case and the idle adjusting screw on the engine.



A. Accel Lever Stopper Screw
B. Base Plate
C. Accel Lever
D. Idle Adjusting Screw
E. Cover Plate
F. Link Lever

- Adjust the idle to the lowest stable speed by turning the idle a adjusting screw located on the carburetor.

Idle Speed: 1 175 ±75 r/min (rpm)



A. Idle Adjusting Screw
B. Throttle Link
C. Choke Cable
D. Carburetor

- After adjustment, screw in the idle adjusting screw on the base plate until it lightly touches the link lever.
- Finally screw in the accel lever stopper screw until it keeps clearance by 1 mm to the accel lever.

NOTE

○ *The idling speed could become unstable with the throttle valve stuck closed, if the adjustment screws is turned excessively.*

- Depress and release the throttle pedal a few times to make sure that the idle speed does not change. Readjust if necessary.

Fuel System

(for KAF400)

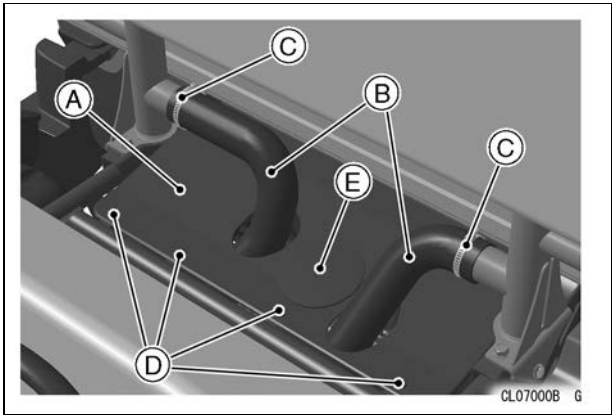
Accumulation of moisture or sediment in the fuel system can restrict the flow of fuel and cause carburetor malfunction. The system should be checked in accordance with the Periodic Maintenance Chart.

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions and cause severe burns. Before performing any service, turn the ignition switch "OFF". Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks, including any appliance with a pilot light. Make sure the engine is cold before servicing. Wipe any fuel off the engine before starting it.

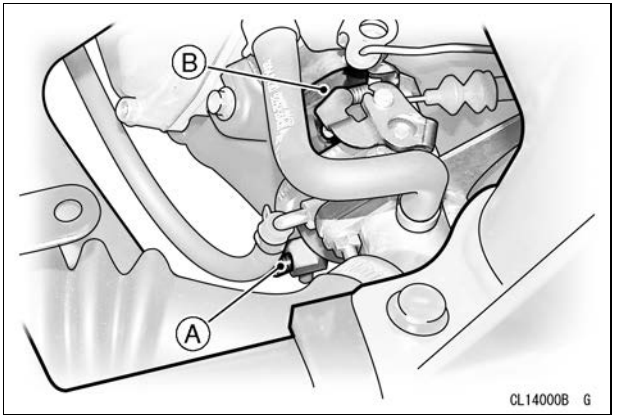
Dust and/or Water Inspection

- Lift the cargo bed to support it with the hook.
- Raise the seat.
- Remove the guard plate by releasing the two air intake ducts and the 6 quick rivets.



A. Guard Plate
B. Air Intake Ducts (2 p.c.s.)
C. Clamps (2 p.c.s.)
D. Quick Rivets (6 p.c.s.)
E. Cap

- Place a suitable container under the carburetor.
- Turn out the drain screw a few turns to drain the carburetor, and check to see if water or dirt has accumulated in the carburetor.



A. Drain Screw
B. Carburetor

- Tighten the drain screw.

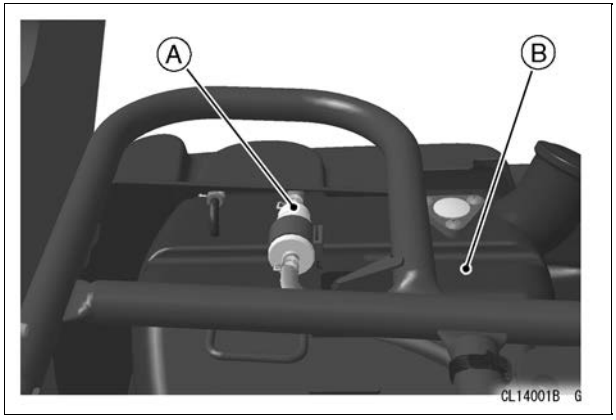
NOTE

○ *If any water or dirt appears during the above operation, have the fuel system checked by an authorized Kawasaki dealer.*

Fuel Filter

The vehicle is equipped the fuel filter at the middle of the fuel line to prevent dirt or other foreign material from entering the carburetor and fuel pump.

Have your authorized Kawasaki dealer inspect and clean or replace the fuel filter in accordance with the Periodic Maintenance Chart, or whenever any foreign material or water can be seen trapped in the fuel filter.



A. Fuel Filter
B. Fuel Tank

Fuel Filter

(for KAF950)

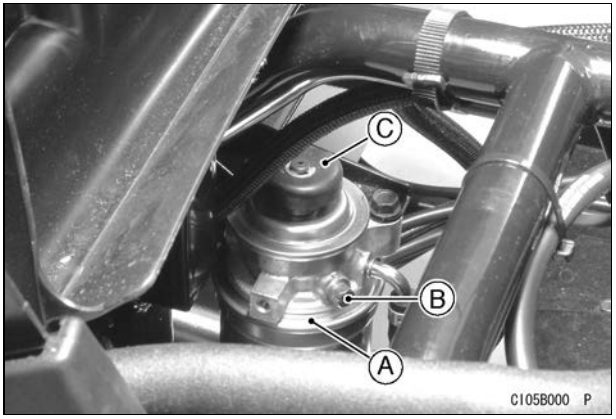
Accumulation of moisture or sediment in the fuel system can restrict the flow of fuel and cause injection pump damage. The system should be checked in accordance with the Periodic Maintenance Chart.

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions, creating the potential for serious burns. Turn the ignition switch "OFF". Do not smoke. Make sure the area is well ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light. Never fill the tank completely to the top. If the tank is filled completely to the top, heat may cause the fuel to expand and overflow through the vents in the tank cap. After refueling, make sure the tank cap is closed securely. If gasoline is spilled on the fuel tank, wipe it off immediately.

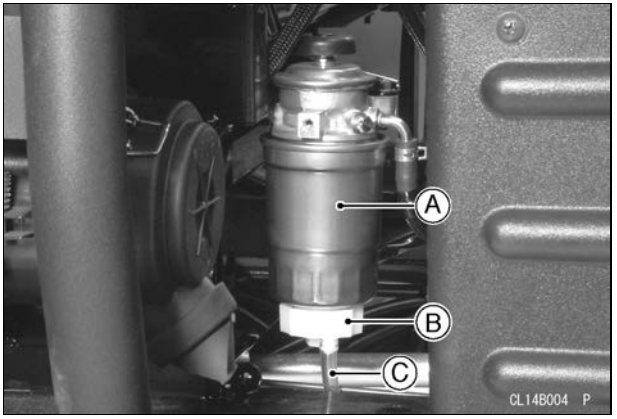
Draining

- Stop the engine.
- Pull the rear edge of the seat upward.
- Place a suitable container under the fuel filter.
- Open the air vent plug counterclockwise several turns.



A. Fuel Filter
B. Air Vent Plug
C. Priming Pump

- Turn the drain cap on the bottom of the fuel filter clockwise 1 turn to loosen it. Allow any water and sediment to drain out of the tube.



A. Fuel Filter
B. Drain Cap
C. Drain Tube

- Tighten the drain cap and operate the priming pump until fuel flows from the air vent plug.
- Tighten the air vent plug securely.

Tightening Torque

Air Vent Plug:	4.9 N·m (0.50 kgf·m)

- Thoroughly wipe up any spilled fuel.
- Crank the engine and check for fuel leaks around the filter.

Replacement of Fuel Filter Element

- Stop the engine.
- Place a suitable container under the fuel filter to catch spilled fuel.

- Remove the drain cap at the bottom end of the fuel filter. Discard the O-ring.
- Remove the fuel filter element with a filter wrench.
- Replace the old filter element with a new one. Tighten it by hand until the gasket on the element touches the filter body.
- Tighten it 1/3 turn more to obtain a snug fit.
- Replace the old O-ring with a new one. Tighten the drain cap securely.
- Loosen the air vent plug. Operate the priming pump several times until fuel flows out.
- Tighten the air vent plug.
- Thoroughly wipe up any spilled fuel.
- Crank the engine and check for fuel leaks around the filter.

Injection Pump

(for KAF950)

The injection pump sends the fuel to the injection nozzles under high pressure.

The mechanical governor controls the amount of fuel injected, and is set to satisfy the engine's needs.

The idle speed adjustment should be performed in accordance with the Periodic Maintenance Chart or whenever the idle speed changes.

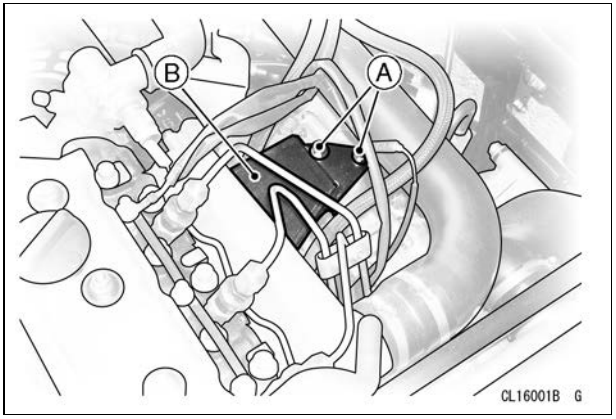
Idle Speed Adjustment

- Apply the parking brake.
- Put the gear shift lever in the N (neutral) position.
- Start the engine, and warm it up thoroughly.

⚠ DANGER

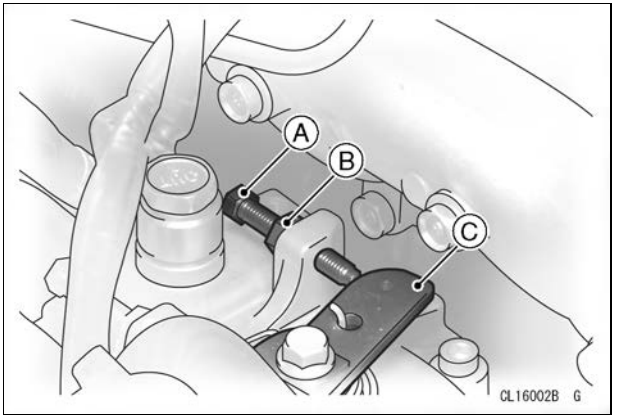
Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

- Lift the cargo bed and support it with the rod.
- Use a suitable tachometer to measure the idle RPM. If it does not match the specification, proceed as follows.
- Remove the injection pump cover by releasing two bolts.



A. Cover Bolts
B. Pump Cover

- Loosen the locknut and the accelerator lever stopper screw on the injection pump.



A. Accelerator Lever Stopper Screw
B. Locknut
C. Accelerator Lever

- Adjust the idle speed by turning the accelerator lever stopper screw.

Idle Speed:	850 ~ 950 r/min (rpm)

- After adjustment of the accelerator lever stopper screw, the free play of the throttle pedal must be adjusted as well.
- Tighten the locknut.

Tightening Torque:	5.6 N·m (0.57 kgf·m)

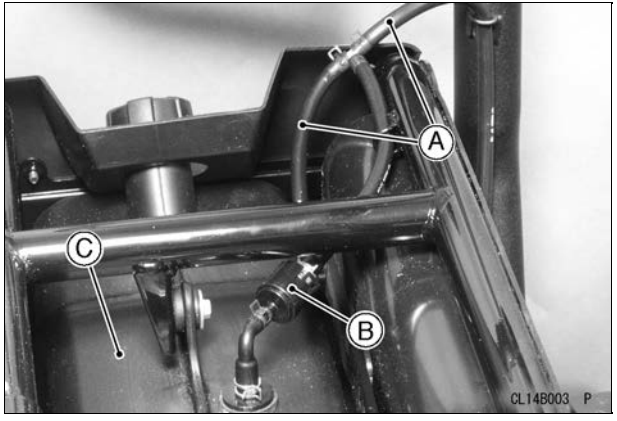
- Depress and release the throttle pedal a few times to make sure that the idle speed remains unchanged. Readjust if necessary.

Fuel Tank Vent

(for KAF950)

The fuel tank vent hoses must be routed as specified.

The engine may stall or lose power if the fuel tank vent is plugged or if the vent hoses are pinched. Inspect the vent hoses before riding and whenever the engine seems to lose power. If the fuel tank is full but the engine feels as if it is running out of fuel, check the vent and vent hoses.



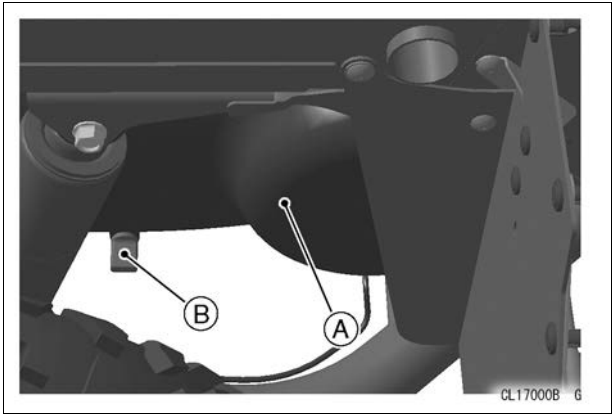
A. Fuel Tank Vent Hoses
B. Check Valve
C. Fuel Tank

Belt Drive Torque Converter

The vehicle is equipped with a belt drive torque converter type automatic transmission. The belt, driven pulley shoes and drain hose should be checked in accordance with the Periodic Maintenance Chart.

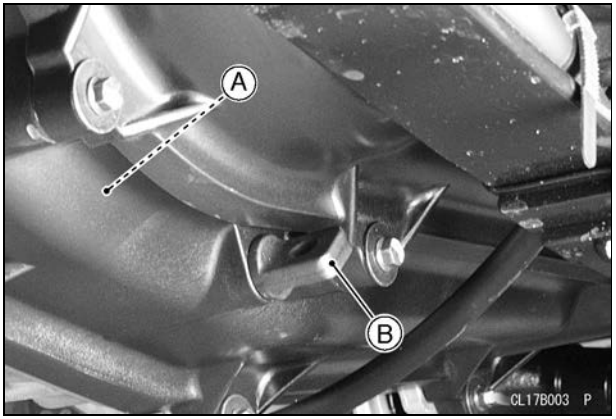
The belt and driven pulley shoes inspection should be done by an authorized Kawasaki dealer.

(for KAF400)



A. Belt Drive Torque Converter (inside)
B. Drain Plug

(for KAF950)



A. Belt Drive Torque Converter (inside)
B. Drain Plug

Dust and/or Water Inspection

- Remove the drain plug on the bottom of the converter housing to expel dust and/or water accumulated inside.

Belt Drive Torque Converter Air Cleaner

A clogged belt drive torque converter air cleaner may cause the torque converter to malfunction.

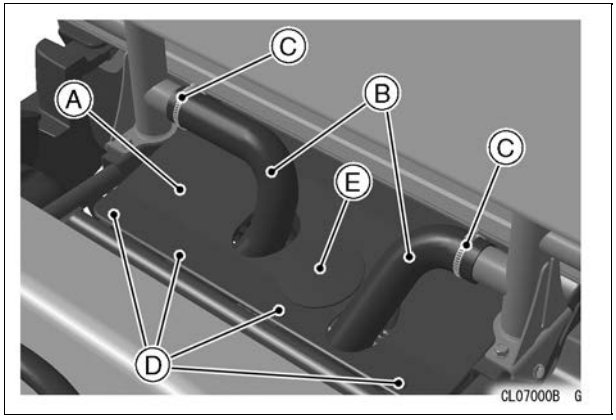
NOTICE

A clogged air cleaner may allow dirt and dust to enter the belt drive torque converter causing excessive wear of the inner parts and loss of driving power.

The air cleaner elements must be cleaned in accordance with the Periodic Maintenance Chart. In dusty areas, the elements should be cleaned more frequently than the recommended interval. The elements should be replaced if they are damaged.

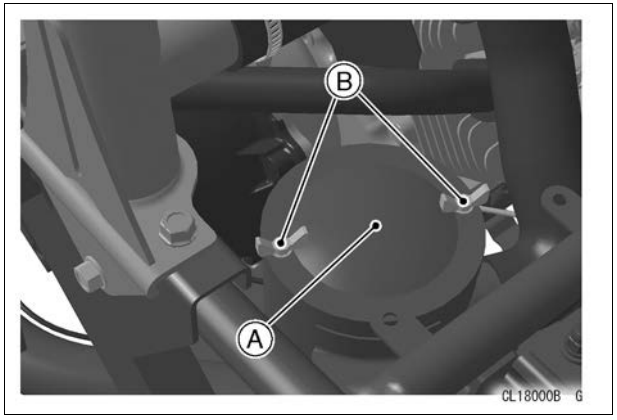
*Element Removal **(for KAF400)***

- Lift the cargo bed and support it with the hook.
- Raise the seat.
- Remove the guard plate by releasing the two air intake ducts and the 6 quick rivets.

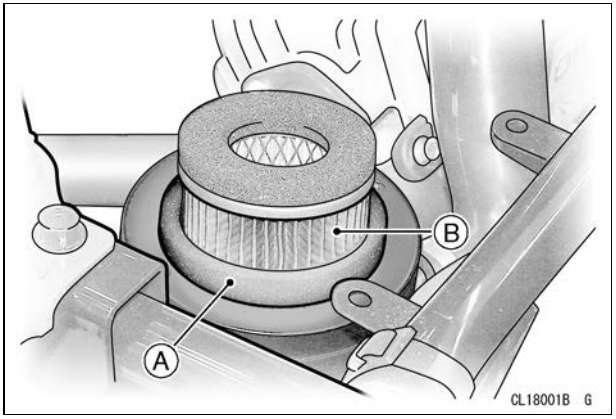


A. Guard Plate
B. Air Intake Ducts (2 p.c.s.)
C. Clamps
D. Quick Rivets (6 p.c.s.)
E. Cap

- Take off the wingbolts and remove the air cleaner housing cap.
- Pull the air cleaner element out of the housing.
- Push a clean, lint-free towel into the air cleaner housing to keep dirt or other foreign material from entering.



A. Cap
B. Wingbolts



A. Foam Element
B. Paper Element

NOTICE

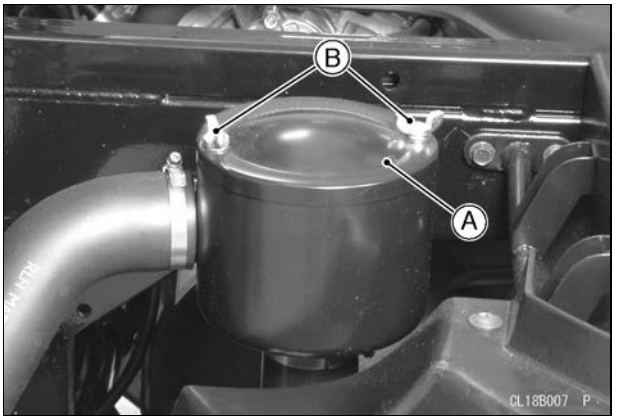
If dirt gets into the belt drive torque converter, excessive wear and loss of driving power may result.

NOTE

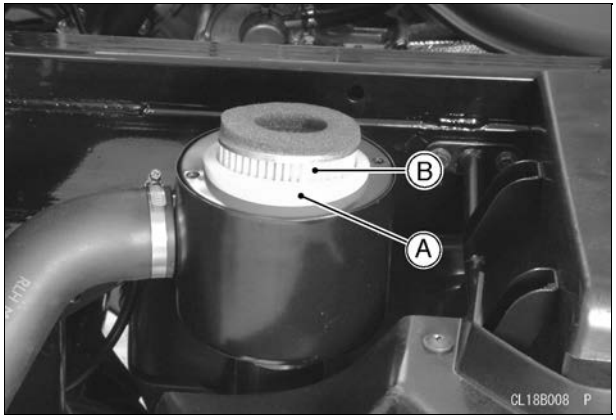
○ *Element installation is performed in the reverse order of removal.*

Element Removal ***(for KAF950)***

- For the belt drive torque converter air cleaner take off the wingbolts and remove the air cleaner housing cap.
- Pull the air cleaner element out of the housing.
- Push a clean, lint-free towel into the air cleaner housing to keep dirt or other foreign material from entering.



A. Cap
B. Wingbolts



A. Foam Element
B. Paper Element

NOTICE

If dirt gets into the belt drive torque converter, excessive wear and loss of driving power may result.

NOTE

○ *Element installation is performed in the reverse order of removal.*

Element Cleaning

- Remove the element (see Element Removal).
- Remove the urethane foam element from the paper element.
- Clean the foam element in a bath of high flash-point solvent using a soft bristle brush.
- Squeeze it dry in a clean towel. Do not wring the element or blow it dry; the element can be damaged.
- Inspect the foam element for damage. If it is torn, punctured, or hardened, replace it.

NOTE

○ *Replace the foam element after cleaning it five times or if it is damaged.*

- Clean the paper element by tapping it lightly to loosen dust.
- Blow away the remaining dust by applying compressed air from the inside to the outside (from the clean side to the dirty side).
- Inspect the element material for damage. If any part of the element is damaged, the element must be replaced.

Brakes

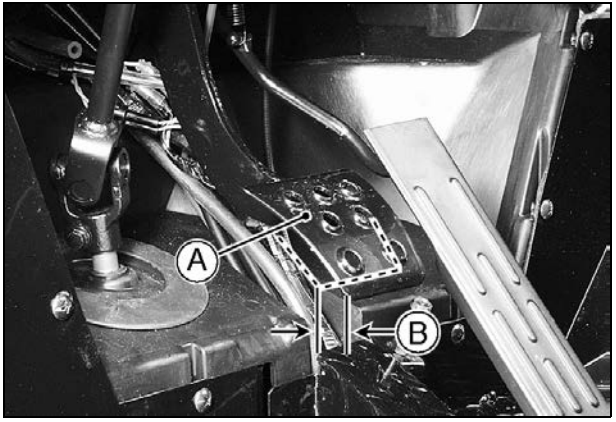
The vehicle is equipped with hydraulically activated drum brakes on all four wheels.

Brake Pedal

Brake Pedal Free Play Inspection

In accordance with the Periodic Maintenance Chart, check the brake pedal free play.

- Depress the brake pedal lightly by hand.
- There should be ~ mm of free play.



A. Brake Pedal
B. ~ mm

NOTE

○ *Free play values are shown in your English OM titled "Brakes" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those values into the space provided in this page.*

- If the brake pedal has more or less free play than specified or the pedal action feels rough or "catchy," have the brake system inspected immediately by an authorized Kawasaki dealer.

Brake Shoe Linings

Brake Shoe Lining Wear Inspection

In accordance with the Periodic Maintenance Chart have the brake shoe linings checked for wear by an authorized Kawasaki dealer.

Brake Fluid

In accordance with the Periodic Maintenance Chart, inspect the brake fluid level in the reservoir and change the brake fluid. The brake fluid should also be changed if it becomes contaminated with dirt or water.

Fluid Requirement

Use heavy-duty brake fluid only from a fresh, unopened container marked DOT3.

⚠ WARNING

Over time, brake fluid can absorb moisture, lowering its boiling point and reducing brake effectiveness. Do not use fluid from a container that has been left unsealed or that has been open for a long time. Do not mix two types and brands of fluid for use in the brakes. Don't leave the reservoir cap off for any length of time to avoid moisture contamination of the fluid. Don't add or change brake fluid in the rain or during conditions of blowing dust or debris.

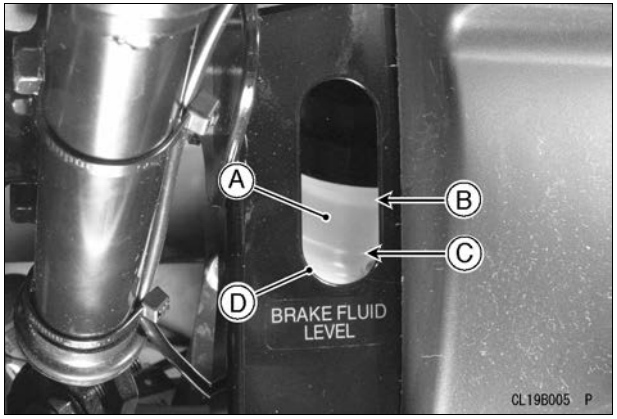
NOTICE

Brake fluid quickly ruins painted surfaces. Wipe up any spilled fluid immediately.

(for KAF950)

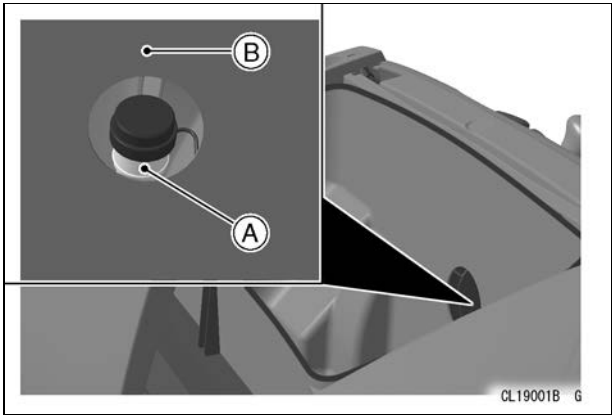
Fluid Level Inspection

- With the vehicle on level ground, check that, through the inspection hole in the dashboard, the fluid level in the reservoir is between the upper (marked MAX) and lower (marked Min.) level lines.



A. Brake Fluid Reservoir
B. Upper Level Line (MAX)
C. Lower Level Line (MIN)
D. Inspection Hole

- If the fluid level is lower than the lower level line, check for fluid leaks in the brake lines, and open the front cargo hood (see "Front Cargo Compartment" section in the "General Information" chapter) and fill the reservoir to the upper level line.
- The brake fluid reservoir is inside the access hole, and using a funnel fill the reservoir to the upper level line.



A. Brake Fluid Reservoir
B. Cargo Compartment Wall

⚠ WARNING

Mixing two types and brands of fluid for use in the brake lowers the brake fluid boiling point and could reduce brake effectiveness. Change the fluid in the brake system completely if the fluid level is low but the type and brand of the fluid already in the reservoir are unknown.

- Apply the brake forcefully for a few seconds and check for fluid leakage around the fittings.

⚠ WARNING

Air in the brake lines diminish braking performance and can cause an accident resulting in injury or death. If the brake pedal has a soft or "spongy" feeling mushy when it is applied, there might be air in the brake lines or the brake may be defective. Do not operate the vehicle and service the brake system immediately.

Fluid Change

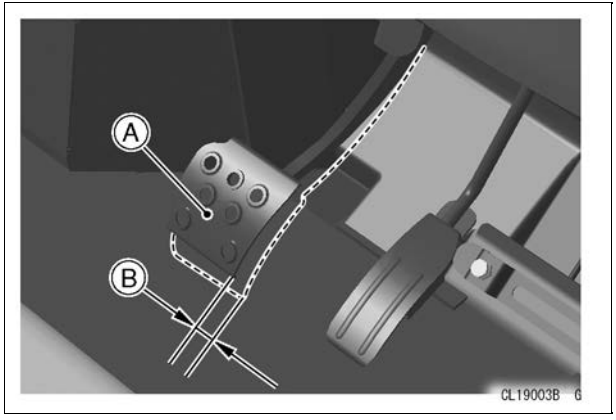
Have the brake fluid changed by an authorized Kawasaki dealer.

Brake Light Switch

When the brake pedal is depressed, the brake light goes on. The brake light switch should be inspected in accordance with the Periodic Maintenance Chart.

Inspection

- Turn the ignition switch to the "ON" position.
- Depress the brake pedal. The brake light should go on after about mm of pedal travel.



A. Brake Pedal
B. mm

- If it does not, check the bulb and, if necessary, adjust the brake light switch.

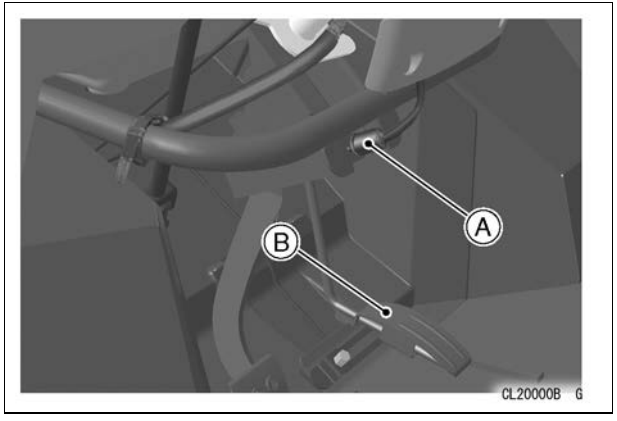
NOTE

○ *Value of the pedal traveling is shown in your English OM titled "Brake Light Switch" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those values into the space provided in this page.*

(for KAF400)

Adjustment

- Brake light switch is located above the brake pedal.

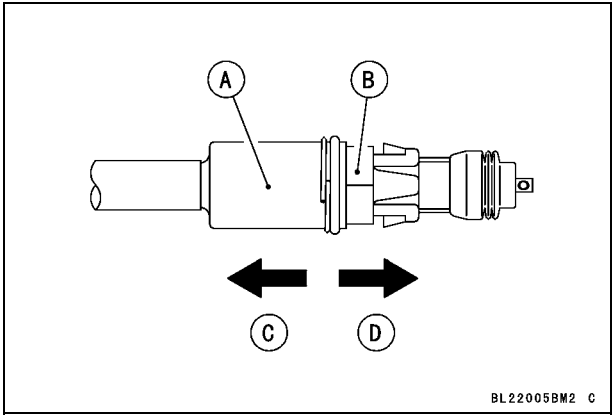


A. Brake Light Switch
B. Throttle Pedal

- To adjust the brake light switch, move the switch forward or rearward, by turning the adjusting out.

NOTICE

To avoid damaging the electrical connections inside the switch, be sure that the switch body does not turn during adjustment.



A. Brake Light Switch
B. Adjusting Nut
C. Lights sooner.
D. Lights later.

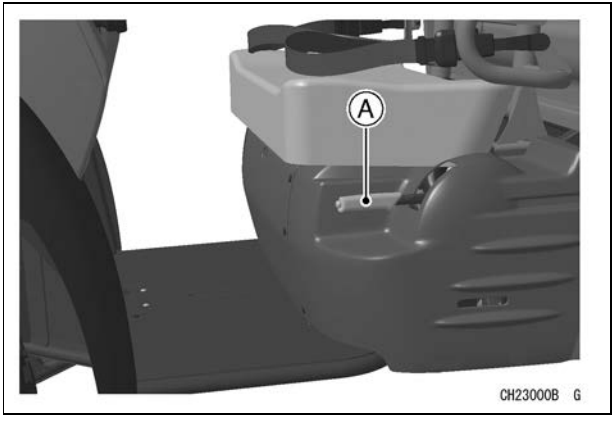
(for KAF950)
Adjustment
- Adjustment is best-performed by an authorized Kawasaki dealer since the brake light switch is hard to access for adjustment.

Parking Brake Lever

The parking brake helps hold the vehicle from rolling while parked.

In accordance with the Periodic Maintenance Chart, check that the parking brake lever functions properly.

(for KAF400)
Inspection

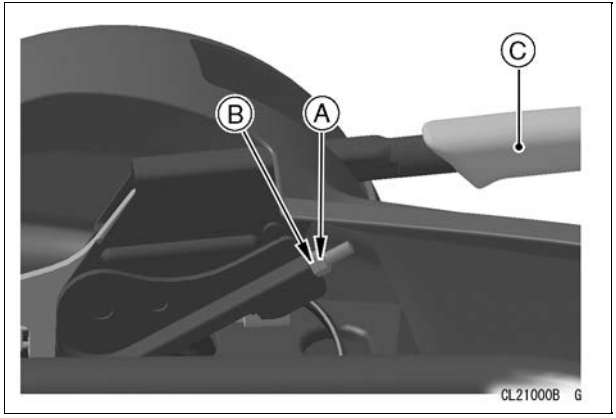


A. Parking Brake Lever

- Pull the parking brake lever up and to the rear.
- After 8 to 12 clicks of lever travel, the vehicle should not roll while packed.
- If it does, adjust the parking brake lever.

Adjustment
- Raise the seat.

- Loosen the locknut (upper nut) on the middle of the parking brake lever, and turn the nut next to the locknut until the brake lever will only move 8 to 12 clicks upward.



A. locknut
B. Nut
C. Brake Lever

- Tighten the locknut securely.

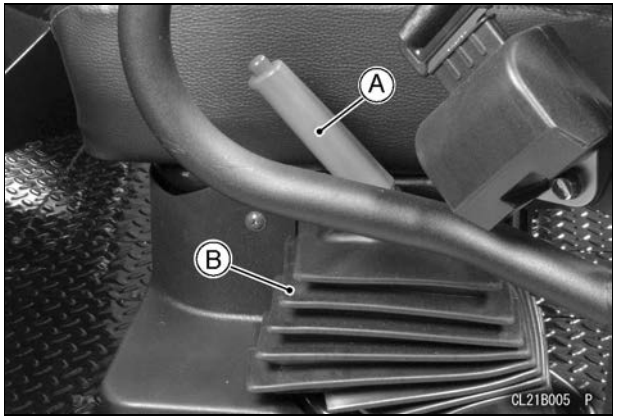
NOTE

- *Be sure to hold the cable end with a wrench to prevent the cable from twisting.*
- *If the brake lever can not be adjusted with the nuts shown here, or if there is any doubt as to the condition or braking effectiveness, have the parking brake system inspected by an authorized Kawasaki dealer.*

(for KAF950)

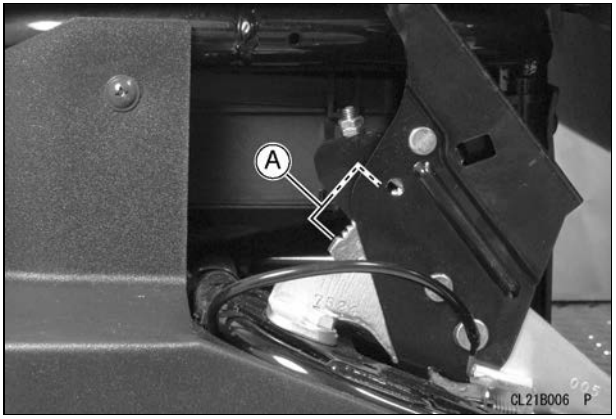
Inspection

- Pull the rubber boot up on the bottom.



A. Parking Brake Lever
B. Rubber Boot

- Pull the parking brake lever up and to the rear.
- After 8 to 12 clicks of lever travel, the vehicle should not roll while parked.

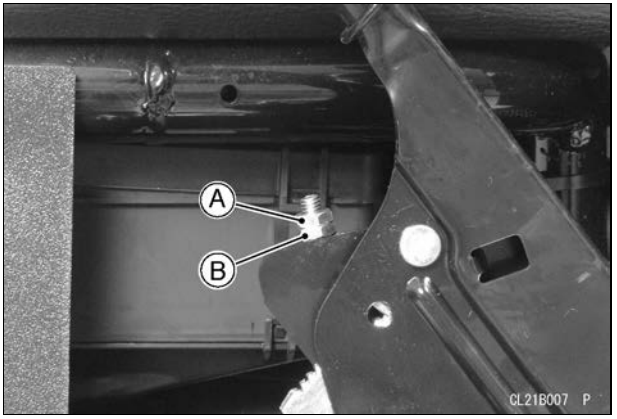


A. 8 ~ 12 clicks

- If it does, adjust the parking brake lever.

Adjustment

- Loosen the locknut (upper nut) on the middle of the parking brake lever, and turn the nut next to the locknut until the brake lever will only move 8 ~ 12 clicks upward.



A. Locknut
B. Nut

- Tighten the locknut securely.
- Reinstall the rubber boot making sure that the projections on its lower edge are completely pushed into the holes in the bracket.

NOTE

○ *Be sure to hold the cable end with a wrench to prevent the cable from twisting.*

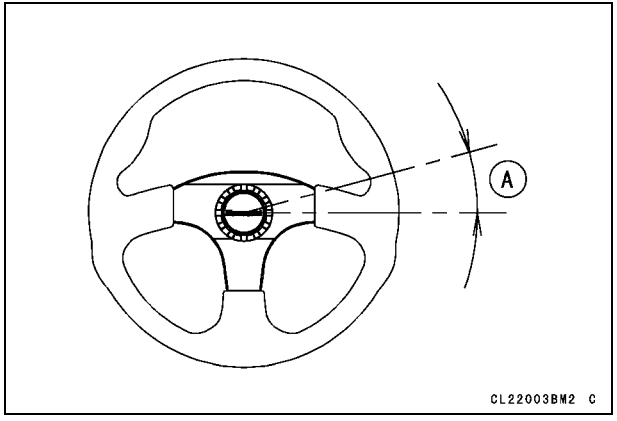
○ *If the brake lever can not be adjusted with the nuts shown here, or if there is any doubt as to the condition or braking effectiveness, have the parking brake system inspected by an authorized Kawasaki dealer.*

Steering Wheel

In accordance with the Periodic Maintenance Chart, check the steering wheel for the specified free play and smooth operation.

Free Play Inspection

- Park the vehicle on level ground.
- Lightly turn the steering wheel left and right.
- There should be ~ mm of free play.
- If there is excessive free play or strange noises, or the steering feels rough or "catchy," have the steering system checked by an authorized Kawasaki dealer.



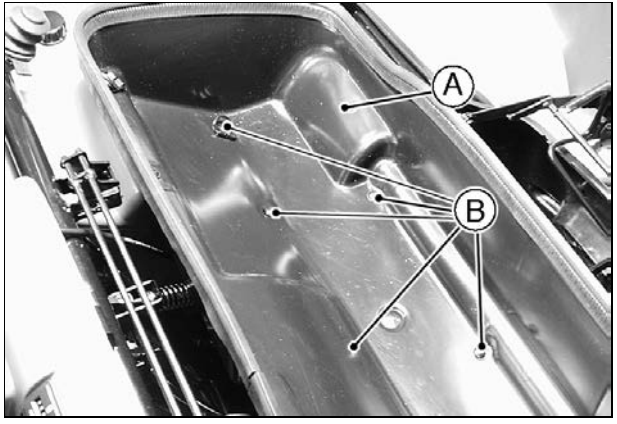
A. ~ mm

(for KAF950)

Steering Position Adjustment

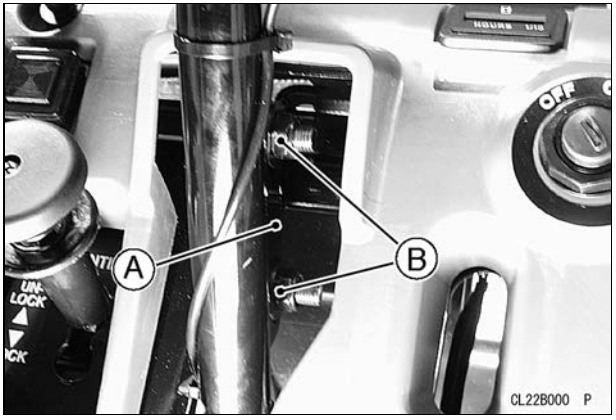
The steering wheel position can be adjusted to suit the operator.

- Open the front cargo hood (see the "Front Cargo Compartment" section "General Information" chapter).
- Unscrew the screws and remove the front cargo compartment for easier access to the steering column bracket.



A. Front Cargo Compartment
B. Screws

- Loosen the upper and lower nuts on the steering column bracket and move the steering wheel up or down.



A. Steering Column Bracket
B. Nuts

- Tighten the bolts and nuts.
- Reinstall the front cargo compartment.
- Close the front cargo hood.

Power Steering System (for KAF950)

Steering may become more difficult than usual for the following reasons:

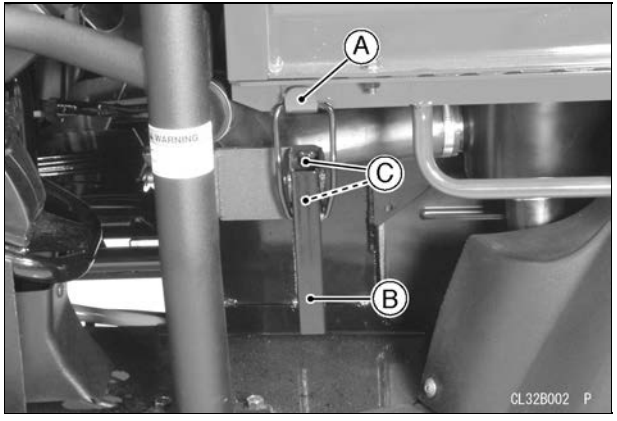
- The steering wheel was continuously turned or held to the full turn stops with torque applied by driver. In this case the ECU works to protect the system from overheating by stopping the power assisting. Stop turning the steering wheel and wait until the system temperature drops, and the power steering recovers.
- Fuses in the harness may have blown. There are several reasons that the fuses may blow. Refer to the Fuse section in this chapter for details.
- Battery voltage has dropped. Voltage drop can happen when the engine starts; inspect the battery voltage.
- Cable harness or connectors may have been disconnected. See an authorized dealer for service.

NOTE

○ *If the steering becomes irregular or unusual for any reason other than above, have an authorized dealer check the steering and relevant components immediately. In some cases the power steering's neutral position can be affected by an accident or bump.*

Cargo Bed Latches

(for KAF950)



A. Cargo Bed Hook
B. Latch and Lever
C. Mounting Bolts

Cargo bed latches must rest securely on the cargo bed hooks without rattling.

If there is rattling or not snug enough, adjust the latch positions as follows;

- Release the mounting bolts .
- Reposition the latch to the suitable place by sliding within the ellipse bolt holes.
- Retighten the mounting bolts.

NOTE

○ *Adjustment must be made on both sides.*

Wheels

Rims

The rims are a drop-center, tubeless tire design. Take care not to damage the sealing surfaces of the tire or rim when removing or installing tires. Note that the rims, like automotive rims, are not symmetrical. All wheels must be installed so that the valve stems are on the outside of the vehicle.

Wheel Nuts

Check for wheel nuts tightness in accordance with the Periodic Maintenance Chart.

Tightening Torque:	N·m (kgf·m)

Tires

The front and rear tires are knobby tubeless tires. When replacing tires, check the valve stems and cores for damage. Take care not to damage the tire sealing surfaces of the rims.

Standard Tires:

Front	
Rear	

NOTE

○ *Tires are an important part of the suspension of the vehicle. Tire construction characteristics and tire inflation pressure can greatly influence vehicle handling. Kawasaki recommends that you always*

replace tires with standard replacement tires as shown above. It is also very important to have tires of the same type and size on all axles, and at the same inflation pressure, on each axle.

- *Installation of non-standard tires, or use of different tires on one axle, can change or impair the handling of the vehicle.*
- *Installation of tubeless tires on rims requires compressed air and is normally recommended as a dealer service operation. Nevertheless, a tube can be inserted into the tire by the operator as an emergency repair.*

Payload and Tire Pressure

Failure to maintain proper inflation pressures or observe payload limits for your tires can change or impair handling and performance of the vehicle. The maximum recommended load carrying capacity is kg.

Use a tire pressure gauge to accurately set tire pressure.

⚠ WARNING

Operating with unequally or improperly pressurized tires can adversely affect steering or handling. Inflate both front tires to the same pressure and both rear tires to the same pressure.

Tire Air Pressure (when cold)

Normal Use	Front	kPa (kgf/cm²)
	Rear	kPa (kgf/cm²)

Tire Wear, Damage

As tire tread wears down, tires become more susceptible to puncture and failure.

- In accordance with the Periodic Maintenance Chart, measure the depth of the tread with a depth gauge, and replace any tire that has worn down to the minimum allowable tread depth.



A. Tire Depth Gauge

Minimum Tread Depth: mm

- Visually inspect the tire for cracks and cuts, replacing the tire in case of bad damage. Swelling

or high spots indicate internal damage, requiring tire replacement.

- Remove any imbedded stones or other foreign particles from the tread.

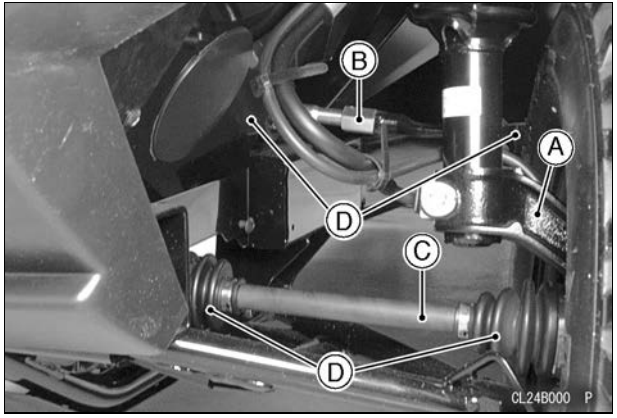
NOTE

○ *Information such as wheel nut tightening torque, standard tire names, maximum load-carrying capacity of the MULE, and tire pressures are shown in your English OM titled "Wheels" section of "MAINTENANCE AND ADJUSTMENT" chapter. Refer to the relevant page and copy those values into the space provided in this page.*

Joint Boots

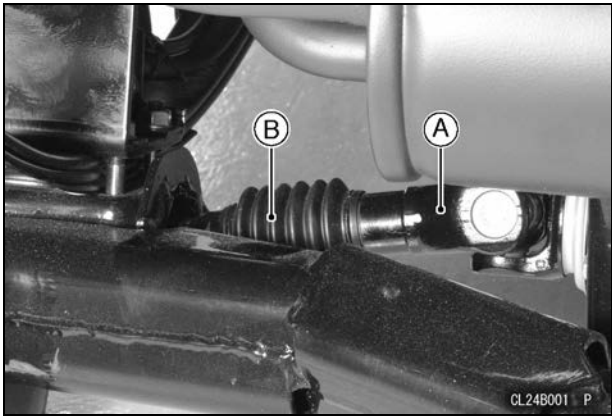
(for KAF400A & 950)

In accordance with the Periodic Maintenance Chart, inspect the joint boots on the front axles, tie rod ends, steering knuckles, and rear axle shafts for cracks, holes, damage or deterioration. If there is any one of them, have the joint boot replaced by an authorized Kawasaki dealer.



A. Steering Knuckle
B. Tie Rod
C. Front Axle (for KAF400A & 950)
D. Joint Boots

(for KAF950)

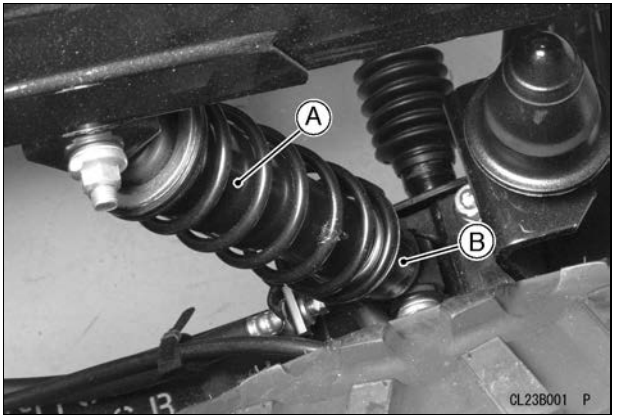


A. Rear Axle
B. Joint Boot

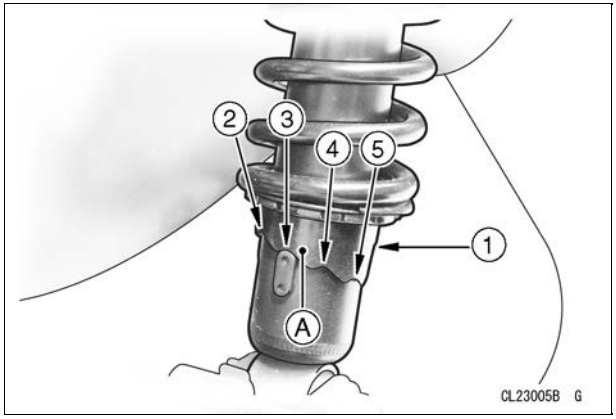
Suspension

Rear Shock Absorber Spring Force Adjustment

The spring adjusting sleeves on the rear shock absorbers have 5 positions so that the springs can be adjusted for different riding and loading conditions.



A. Shock Absorber
B. Adjusting Sleeve



A. Adjusting Sleeve (Turn here with a hook wrench)

If the spring action feels too soft or too stiff, have the sleeves adjusted by an authorized Kawasaki dealer in accordance with the following table.

- Turn the adjusting sleeves on the shock absorbers to the desired position.

Spring Action

Position	Spring Force	Setting	Load	Surface	Speed
1	|	Soft	Light	Good	Low
2	|	↑	↑	↑	↑
3	|	|	|	|	|
4	↓	↓	↓	↓	↓
5	Stronger	Hard	Heavy	Bad	High

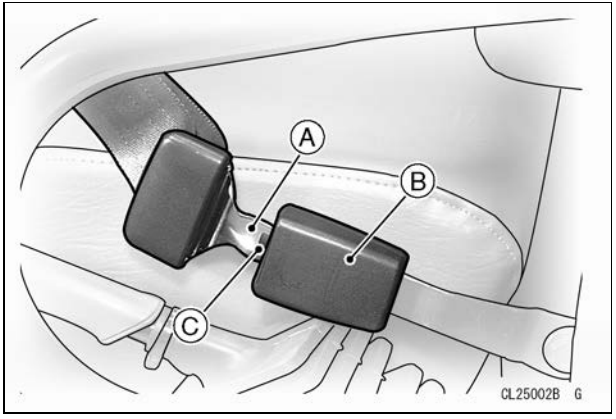
⚠ WARNING

Improper shock absorber adjustment can cause poor handling and loss of stability, which could lead to an accident.
Always adjust the shock absorbers on the left and right side to the same setting.

Seat Belts

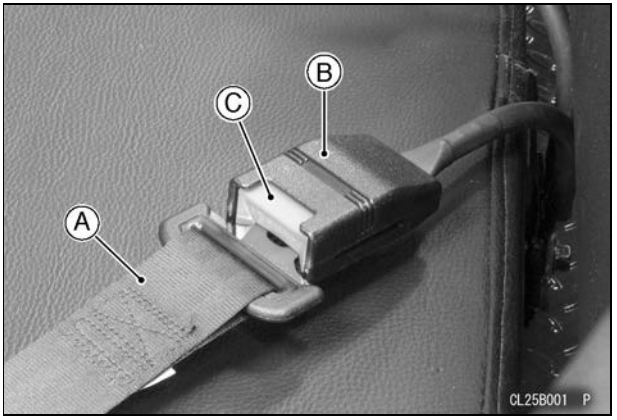
In accordance with the Periodic Maintenance Chart, check that each seat belt functions properly. Push the latch plate into the buckle until it clicks. The latch plate must slide smoothly into the buckle. The click sound shows it is securely latched. Push the red button in the buckle to make sure it releases freely. Also check the belt webbing for wear, cuts or damage. If any irregularities are found, have the seat belt system checked or replaced by an authorized Kawasaki dealer.

(for KAF400 & 950F)



A. Latch Plate
B. Buckle
C. Red Button

(for KAF950G)



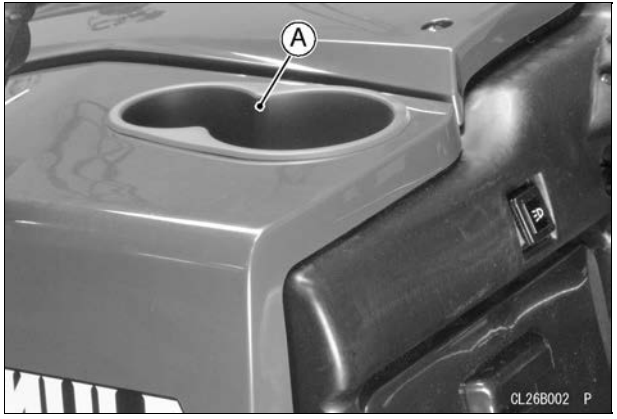
A. Seat Belt
B. Buckle
C. Red Button

Headlight Beam

(for KAF950)

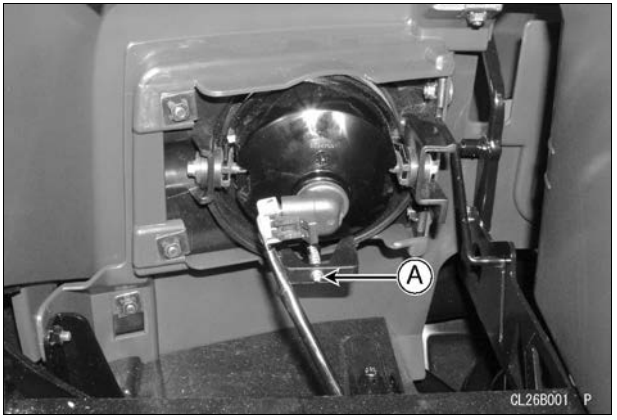
The headlight beams can be adjusted vertically.

- Remove the holder.



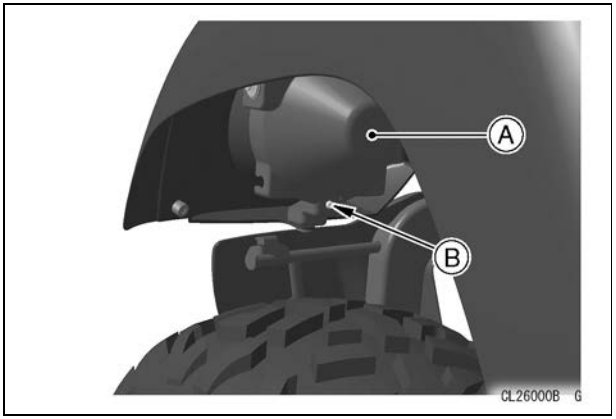
A. Holder

- Turn the adjusting screw on each headlight rim in or out to adjust the headlight vertically.



A. Adjusting Screws

(for KAF400)



A. Lamp Body (backside)
B. Adjusting Screws

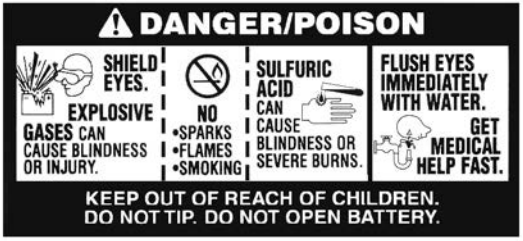
Battery

The battery is located under the left end of the front seat.

⚠ DANGER

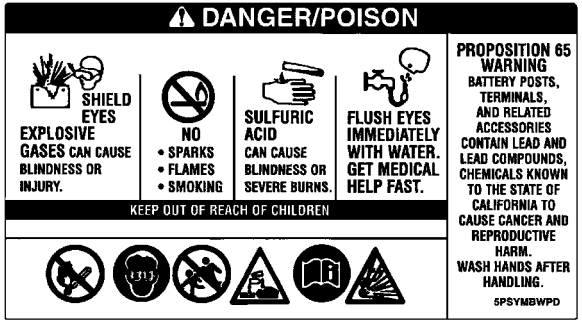
Battery contains sulfuric acid and produces hydrogen gas. Sulfuric acid can cause burns and hydrogen gas can cause an explosion. Read and heed the battery safety label.

(for KAF950)



CF03110B G

(for KAF400)



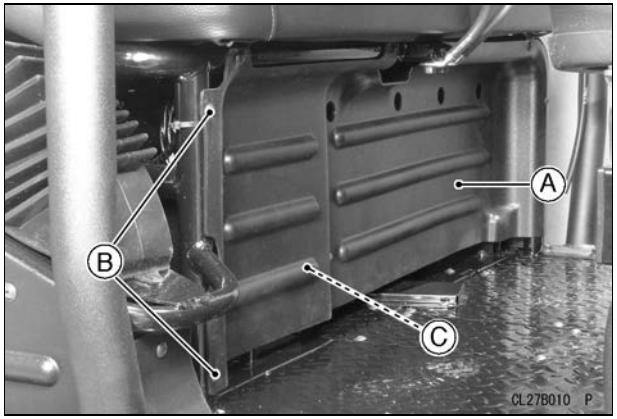
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Battery Removal

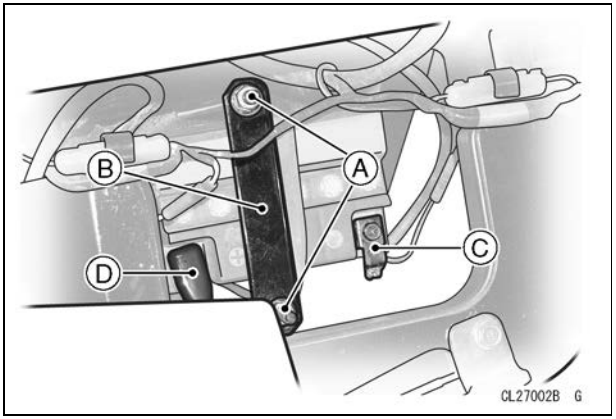
- Release eight (8) screws and remove the rear cover for access

(for KAF950G only)



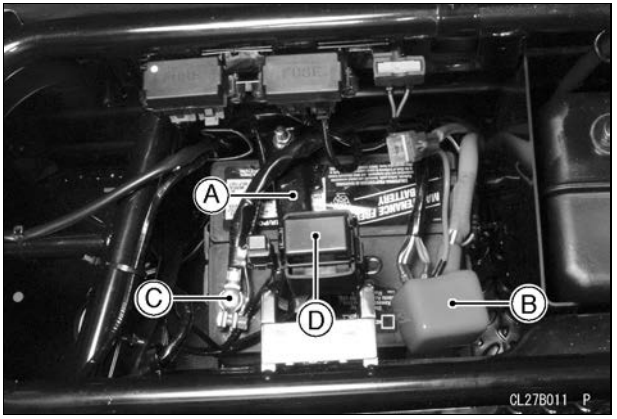
A. Rear Cover
B. Screws
C. Battery

(for KAF400)



A. Bolt
B. Holder
C. (–) Terminal
D. (+) Terminal

- Loosen the bolts to remove the battery holder.



A. Holder
B. (+) Terminal
C. (–) Terminal
D. Power Steering Fuse Box

- Disconnect the cables from the battery, first from the (–) terminal and then the (+) terminal.
- Slide and remove the battery to the rear.
- Clean the battery using a solution of baking soda and water. Be sure that the cable connections are clean.
- Perform a visual inspection. Inspect for defective or cracked case and cover, and loose or damaged terminal posts or cables. Replace battery and/or cables immediately if any damage is found.

Battery Installation

- Put the battery in place.

- Securely connect the red cable with protective cap to the (+) terminal, and then securely connect the black cable to the (–) terminal.
- Put a light coat of grease on the terminals to prevent corrosion.
- Cover the (+) terminal with its protective cap.
- Reinstall the battery holder and rear cover.

⚠ WARNING

Loose battery cables can create sparks which can cause a fire or explosion resulting in injury or death.
Make sure the battery terminal screws are tightened securely and the covers are installed over the terminals.

NOTICE

Do not reverse the battery connections, or damage to the regulator/rectifier unit will result.

⚠ WARNING

Electrolyte contains sulfuric acid which is harmful to skin, eyes, and clothing. Wear eye protection and rubber gloves. If spillage occurs on body or clothing, rinse at once with water for at least 15 minutes. Rinse empty package with large quantities of water.
DESTROY EMPTY PACKAGE TO PREVENT ACCIDENTS!
ALWAYS WEAR EYE PROTECTION!

Battery Characteristics

The battery installed in this Mule is a conventional type battery and requires regular inspection to maintain the proper electrolyte level and a full charge.

In order to maximize battery life and ensure that it will provide the power needed to start your Mule, you must properly maintain the battery's electrolyte level and charge. When used regularly, the charging system in your Mule helps keep the battery fully charged. If your Mule is only used occasionally or for short periods of time, the battery is more likely to discharge.

Due to their internal composition, batteries continually self discharge. The discharge rate depends on the type of battery and ambient temperature. As temperatures rise, so does the rate. Every 15°C (27°F) doubles the rate.

Electrical accessories, such as digital clocks and computer memory, also draw current from the battery even when the key is switched off. Combine

such ”key-off” draws with hot temperatures, and a battery can go from fully charged to completely discharged in a matter of days.

Self-discharge		
Temperature	Approx. Number of Days From 100% Charged to 100% Discharged	
	Lead-Antimony Battery	Lead-Calcium Battery
40°C (104°F)	100 Days	300 Days
25°C (77°F)	200 Days	600 Days
0°C (32°F)	550 Days	950 Days

Current Drain (Y50-N18L-A)		
Discharging Ampere	Days from 100% Charged to 50% Discharged	Days from 100% charged to 100 % Discharged
7 mA	60 Days	119 Days
10 mA	42 Days	83 Days
15 mA	28 Days	56 Day
20 mA	21 Days	42 Days
30 mA	14 Days	28 Days

In extremely cold weather the fluid in an inadequately charged battery can easily freeze, which can crack the case and buckle the plates. A fully charged, properly maintained battery can withstand sub-freezing temperatures with no damage.

Battery Sulfation

A common cause of battery failure is sulfation.

Sulfate is a normal by-product of the chemical reactions within a battery. Sulfation occurs when the electrolyte level is low and exposes the plates within the battery to air. The active lead on the plates oxidizes and sulfates, causing permanent damage so that the battery will not hold a charge. Low electrolyte levels also concentrates the acid in the electrolyte, causing further corrosion to the plates that often falls off and settles at the bottom of the battery. The accumulated corrosion can eventually bridge the plates and cause the battery to short.

Sulfation also occurs when the battery is left in a discharged condition for an extended time. Sulfate is a normal by-product of the chemical reactions within a battery. But when continuous discharge allows the sulfate to crystallize in the cells, the battery plates become permanently damaged and will not hold a change. Battery failure due to sulfation is not warrantable.

Battery Maintenance

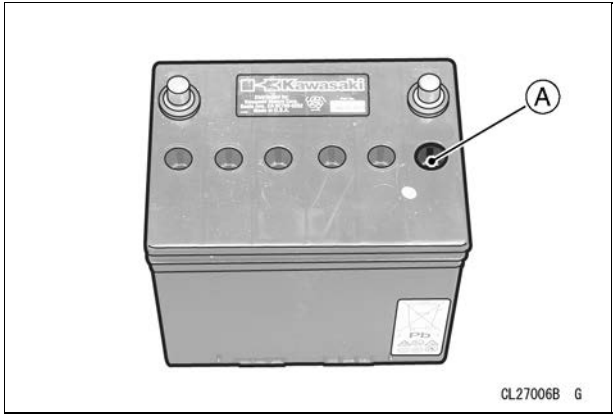
(for KAF950)

It is the owner's responsibility to maintain the battery electrolyte level and a full charge. Failure to do so can lead to battery failure and leave you standard.

Inspect the battery fluid level monthly.

- Remove the battery from the vehicle (see Battery Removal).
- Remove the battery filler caps.
- Check the electrolyte level in each cell.

- If the electrolyte level in any cell is below the bottom of the split ring, fill with distilled water as follows.
- Fill each cell until the electrolyte level rises to the bottom of the split ring in the vent well. DO NOT FILL INTO THE SPLIT. DO NOT OVERFILL!



A. Split Ring

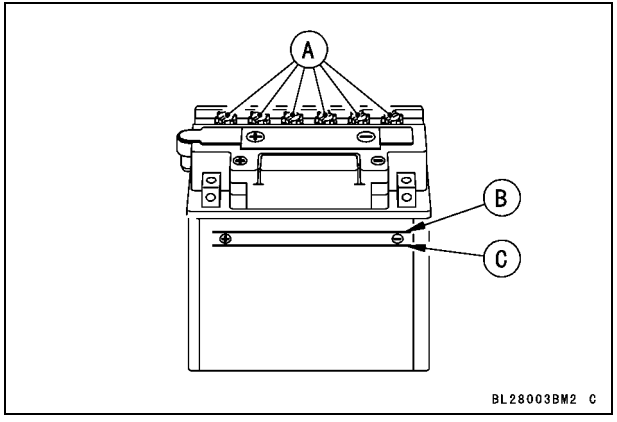
NOTICE

Add only distilled water to the battery. Ordinary tap water is not a substitute for distilled water and will shorten the life of the battery.

- After filling the cells, wait five to ten minutes and add additional electrolyte if necessary to bring the electrolyte to proper level. DO NOT OVERFILL!
- Replace the battery filler cap.
- Install the battery (see Battery installation).

(for KAF400)

- The electrolyte level in each cell should be between the upper and lower level lines.
- If the fluid level is low in any cell, remove the battery filler caps and fill with distilled water until the electrolyte level in each cell reaches the upper level line. **DO NOT OVERFILL.** Overfilling can cause the electrolyte to leak out of the battery vent tube. Battery electrolyte contains sulfuric acid that will corrode vehicle components and parking surfaces, plus cause burns to exposed skin.



A. Filler Caps
B. Upper Level Line
C. Lower Level Line

NOTICE

Add only distilled water to the battery. Ordinary tap water is not a substitute for distilled water and will shorten the life of the battery.

If you are riding your Mule infrequently, inspect the battery voltage weekly using a voltmeter. If it drops below 12.5 volts, the battery should be charged using an appropriate charger (check with your Kawasaki dealer or visit buy kawasaki. com) at a rate of 1/10th of the battery capacity. If you will not be using your vehicle for longer than two weeks, the battery should be charged using an appropriate charger. Do not use an automotive-type quick charger that may overcharge the battery and damage it.

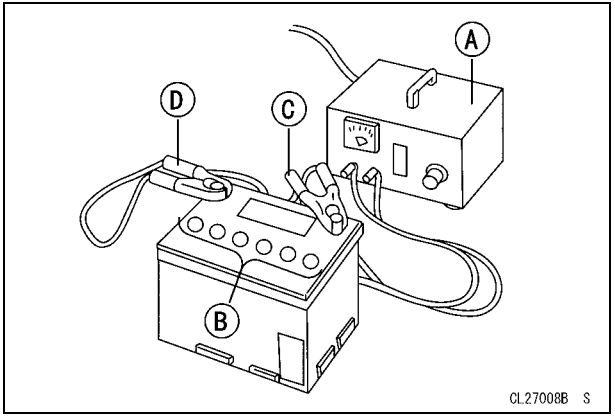
Battery Charging

- Remove the battery from the vehicle (see Battery Removal).

NOTICE

Always remove the battery from the vehicle for charging. If the battery is charged while still installed, battery electrolyte may spill and corrode the frame or other parts of the vehicle.

- Before charging, check the electrolyte level in each cell. If the electrolyte level is low in any cell, fill to the bottom of the split ring.
- Before turning on the battery charger, connect the charger cables to the battery terminals (red to +, black to –).



A. Battery Charger
B. Cells
C. (–) Terminal
D. (+) Terminal

⚠ DANGER

Batteries produce hydrogen gas which can cause an explosion.
Charge the battery in well ventilated area.
Keep sparks, flame, and cigarettes away from the battery during charging.
When using a battery charger, connect the battery to the charger before turning on the charger.
This procedure prevents sparks at the battery terminals which could ignite any battery gases.

- Charge the battery at a rate that is 1/10th of the battery capacity. For example, the charging rate for a 10 Ah battery would be 1.0 ampere.

NOTICE

Do not use a high rate battery charger, as is typically employed at automotive service stations, unless the charging rate can be reduced to the level required for this vehicle's battery.
Charging the battery at a rate higher than specified may ruin the battery. Charging at a high rate causes excess heat which can warp the battery plates and cause internal shorting. Higher-than-normal charging rates also cause the plates to shed active material. Deposits will accumulate, and can cause internal shorting. If the temperature of the electrolyte rises above 45°C (113°F) during charging, reduce the charging rate to lower the temperature, and increase charging time proportionately.

- After charging, check the electrolyte level in each cell. If the level has fallen, add distilled water to bring it back up to the bottom of the split ring.
- Install the caps on the cells.
- Install the battery (See Battery Installation).

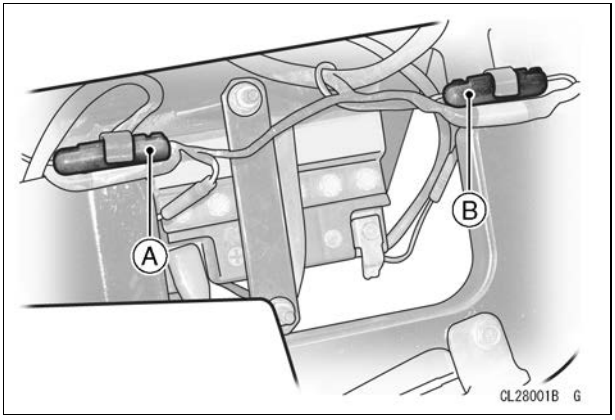
Fuse

(for KAF400)

There are two plastic fuse cases next to the parking brake under the left end of the seat, one for the main (30 A) and the other for the accessory connector (10 A). If the electrical systems do not function, inspect the fuse. Before replacing a fuse, check the wiring harness and electrical equipment for bare wires or other possible damage.

NOTICE

Do not use a fuse of a higher capacity than the specified fuse rating, or damage to the electrical system could result. Refer to the Fuse Location label on the other side fuse case lid.



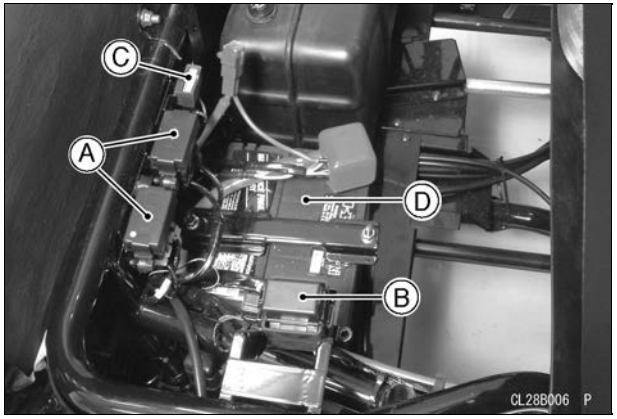
A. Fuse Cases (30 A)
B. Fuse Cases (10 A)

(for KAF950)

There are three fuse boxes under the seat. If the electrical systems do not function, inspect the fuse. Before replacing a fuse, check the wiring harness and electrical equipment for bare wires or other possible causes.

NOTICE

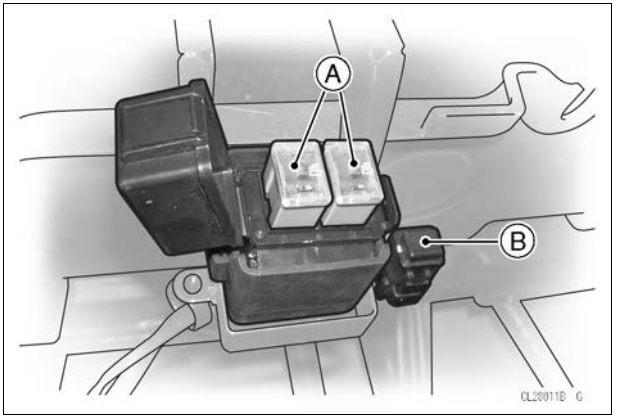
Do not use a fuse of a higher capacity than the specified fuse rating, or damage to the electrical system could result. Refer to the Fuse Location label inside the fuse case lid.



A. Fuse Boxes
B. Fuse Box for Power Steering
C. Breaker for Radiator Fan
D. Battery

Power Steering System

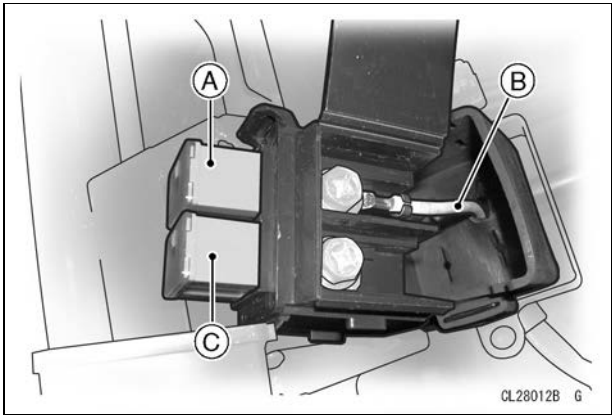
There are 40 A and 7.5 A fuses for the power steering system under the front seat.



A.40 A Fuse (Cover removed.)
B. 7.5 A Fuse

If the fuse is blown, steering becomes heavy. Replace the blown fuse with a fuse of the same specific amperage and type. If a replaced fuse blows again, there can be trouble with the ECU or harness/connectors. See an authorized dealer for inspection.

- You can check the 40 A fuse if it is blown at the top of the fuse.
- When replacing the fuse, release the bolted leads first.



A.40 A Fuse
B. Bolted Lead
C. Spare Fuse

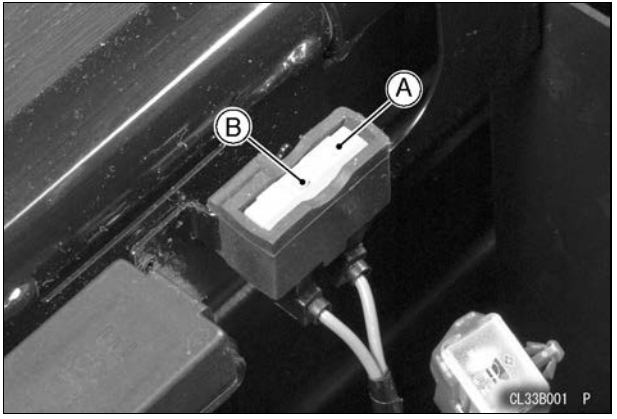
⚠ WARNING

The electrical system can produce electrical shocks. When replacing the 40 A fuse, first remove the cables from the battery terminals to avoid electric shock.

Breaker

(for KAF950)

The breaker for the radiator fan is located under the seat near the fuse box. If the fan does not function, inspect the breaker. In order to reset the breaker, push the button at the side of the breaker case. Before resetting, however, check that the radiator fan is free from mud or other obstacle as well as the wiring harness and electrical equipment for bare wires or other possible causes.



A. Breaker
B. Reset Button

NOTE

○ *When you touch the cooling fan, be sure to disconnect the (–) cable of the battery, since the*

cooling fan can turn automatically even with the main switch off.

General Lubrication

In accordance with the Periodic Maintenance Chart, have the general lubrication performed by an authorized Kawasaki dealer or perform it referring to the Service Manual for this vehicle.

Cleaning

To prolong the life of your vehicle, wash it down immediately after it has been splashed with sea water or exposed to salt air, or operated on rainy days, rough terrain, or in dusty areas.

Preparation for Washing

Before washing, precautions must be taken to keep water off the following parts.

- Muffler rear opening - cover with a plastic bag.
- Ignition switch - cover the keyhole with tape.
- Air cleaner intake (middle of the rear cab frame top) - close opening with tape, or stuff in rags.
- Horn button - cover with tape (KAF950).

Where to be Careful

Avoid spraying water with any great force near the following places.

- Front and rear brakes - if water gets into the brake drums, they will not work effectively until they have dried out.
- Under the seat - if water gets into the ignition coils or into the spark plug caps, it can ground out the spark. When this happens the vehicle will not operate properly and the affected parts must be wiped dry.
- Power Steering System – if water gets into the actuator or is sprayed over the ECU, they may cause malfunction (for KAF950).

NOTICE

Coin operated, high pressure spray washers are not recommended. Water may be forced into bearings and other components causing eventual failure from rust and corrosion. Some soaps are highly alkaline and may leave a residue or cause spotting.

After Washing

- Remove the plastic bag and tape, and open the air cleaner intake.
- Lubricate as indicated in the "General Lubrication" section.
- Test the brakes before operation.
- Start the engine and run it for 5 minutes to dry it thoroughly.

Bolt and Nut Tightening

In accordance with the Periodic Maintenance Chart, have the tightness of the bolts, nuts, and fasteners checked by an authorized Kawasaki dealer.

STORAGE

Preparation for Storage:
- Clean the entire vehicle thoroughly.
- Run the engine for about five minutes to warm the oil, shut it off and drain the engine oil.

⚠ WARNING

Motor oil is a toxic substance. Dispose of used oil properly. Contact your local authorities for approved disposal methods or possible recycling.

- Put in fresh engine oil.
- Empty the fuel from the fuel tank, and empty the carburetor by loosening the drain screw at the float bowl. Catch the fuel in a suitable container. (After a period of time, fuel will break down and could clog the fuel system.) Close the drain screw when finished.

⚠ WARNING

Gasoline or diesel fuel are extremely flammable and can be explosive under certain conditions. Turn the main switch OFF. Do not smoke. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

⚠ WARNING

Gasoline or diesel fuel are a toxic substance. Dispose of fuel properly. Contact your local authorities for approved disposal methods.

NOTE

○ *As an alternative to draining the fuel system, a fuel stabilizer, such as STA-BIL for gasoline, may be used. Follow the manufacturer's instructions for use.*

⚠ WARNING

Fuel stabilizers may contain poisonous substances. Heed the manufacturer's warnings for use.

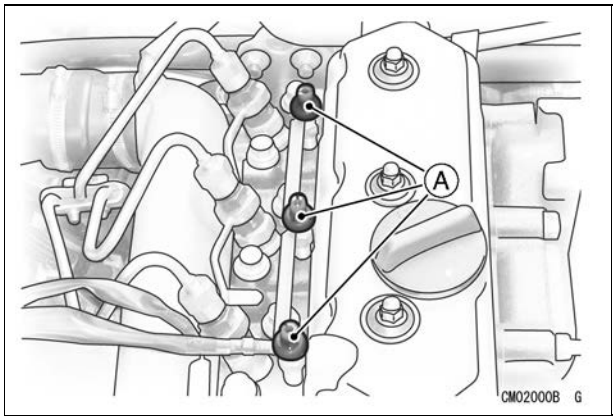
(for KAF400)
- Remove the spark plugs and spray fogging oil directly into each cylinder. Turn the engine over several times with the ignition switch key to coat the cylinder walls. Install the spark plugs.

⚠ WARNING

An air/oil mist may be forcibly ejected from the spark plug holes and could get into your eyes. Do not lean over the engine when performing this procedure. If you do get oil in your eyes, wash them immediately with liberal amounts of clean, fresh water and consult a physician as soon as possible.

(for KAF950)

● Fill each cylinder with 3 cc engine oil by removing the glow plugs.



A. Glow Plugs

NOTE

○ *Do not use more than 3 cc of engine oil in each cylinder. Too much oil could cause hydraulic lock and engine damage.*

● Install the glow plugs.

Tightening Torque

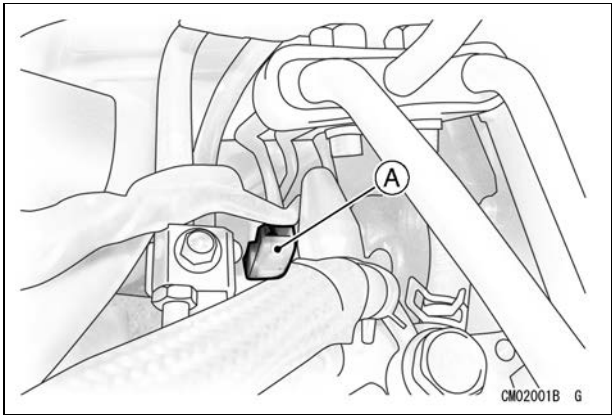
Glow Plug:	17 N·m (1.7 kgf·m)

● Detach the fuel solenoid switch connector. Crank the engine very briefly several times, to evenly coat the cylinder walls with the oil.

NOTE

○ *Do not crank the engine long enough that it starts, or the oilling procedure must be repeated.*

● Reattach the fuel solenoid switch connector.



A. Fuel Solenoid Switch Connector

- Put boards under the front and rear wheels to keep dampness away from the tire rubber.
- Spray oil on all unpainted metal surfaces to prevent rusting. Avoid getting oil on rubber parts or in the brakes.
- Lubricate all the cables as indicated in the General Lubrication section.
- Remove the battery, and store it where it will not be exposed to direct sunlight, moisture, or freezing temperatures. During storage it should be given a slow charge (one ampere or less) about once a month.

NOTICE

Keep the battery well charged during cold weather so that the electrolyte does not freeze and crack open the battery. The more discharged a battery becomes, the more easily it freezes.
Never remove the sealing strip, or the battery can be damaged.

- Tie a plastic bag over the exhaust pipe and air cleaner inlet (rear cab frame top) to prevent moisture or small animals from entering.
- Put a cover over the vehicle to keep dust and dirt from collecting on it.

Removal from Storage:

⚠ DANGER

Exhaust gas contains carbon monoxide, a colorless, odorless poisonous gas. Inhaling carbon monoxide can cause serious brain injury or death. DO NOT run the engine in enclosed areas. Operate only in a well-ventilated area.

- Remove the plastic bags from the exhaust pipe and air cleaner inlet.
- Clean the terminals of the battery, charge the battery if necessary, and install it in the vehicle.
- Make sure the spark plugs are tight.
- Fill the fuel tank with fuel.

- Check all the points listed in the "Daily Safety Checks" section.
- Lubricate as indicated in the "General Lubrication" section.

TROUBLESHOOTING GUIDE

Starter Motor Won't Turn
- Fuse failed (be sure to check for cause of failure)
- Battery leads do not make good electrical contact with battery terminals
- Battery discharged

Engine Cranks, But Won't Start
- No fuel in tank
- Fuel filter clogged
- Water in fuel
- Choke is not used when engine is cold (KAF400)
- Glow plug light failed (KAF950)
- Air filter clogged or inlet blocked
- Engine flooded (KAF400)
- Fuel tank vent clogged
- Fuel line clogged air in fuel system (KAF950)
- Spark plug wire not on spark plug (KAF400)
- Spark plug dirty (KAF400)

Engine Stops
- No fuel in tank
- Water in fuel
- Fuel filter clogged
- Fuel line clogged
- Choke left on too long (KAF400)
- Air filter clogged or inlet blocked
- Fuel tank cap vent clogged

- Engine overheated:
  - Too much idling or low speed running (not enough air flow)
  - Overloaded
  - Wrong spark plug (KAF400)
  - Radiator clogged
  - Coolant level too low
  - Coolant deteriorated
  - Engine oil low
  - Cooling fan breaker functioned (KAF950)

No Power
- Engine overheated:
  - Too much idling or low speed running (not enough air flow)
  - Overloaded
  - Wrong spark plug (KAF400)
  - Radiator clogged
  - Coolant level too low
  - Coolant deteriorated
  - Engine oil low
  - Cooling fan breaker functioned (KAF950)

- Compression leakage:
  - Valve clearance insufficient

- Fuel filter clogged
- Air filter clogged or inlet blocked
- Spark plug dirty or worm (KAF400)
- Choke left on (KAF400)
- Engine oil incorrect
- Water in fuel
- Drive train trouble

Power Steering Won't Work (for KAF950)

- ECU functioned to prevent overheating.
- Fuse failed
- Battery discharged
- Cable harness/connectors disconnected

ENVIRONMENTAL PROTECTION

To protect our environment, properly discard used batteries, tires, engine oil, or other vehicle components that you might dispose of in the future. Consult your authorized Kawasaki dealer or local environmental waste agency for their proper disposal procedure.

MAINTENANCE RECORD

Owner Name .....
Address .....
Phone Number .....
Engine Number .....
Vehicle Number .....
Selling Dealer Name .....
Address .....
Phone Number .....
Warranty Start Date .....

Note: Keep this information and a spare key in a secure location.

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address

204 MAINTENANCE RECORD

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address

206 MAINTENANCE RECORD

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address

Date	Traveled Distance	Maintenance Performed	Dealer Name	Dealer Address