



Includes:

- Important Safety Information
- Navigation Rules
- Operating Instructions
- Maintenance and Storage

JET SKI® ULTRA 310X
JET SKI® ULTRA 310LX
JET SKI® ULTRA 310R
Watercraft

⚠ Read this manual carefully. It contains safety information.

OWNER'S MANUAL

Read This First!

Congratulations on purchasing a new Kawasaki JET SKI watercraft.

Your safety and the safety of other people is very important. The operator of the JET SKI watercraft is responsible for operating it safely.

This Owner's Manual explains how to operate the JET SKI watercraft properly to protect you and other people from injury. The first part of this manual, and the instructions under " DANGER" and " WARNING" in the main text are particularly important for ensuring safety. Please read them carefully and be sure to follow the warnings and instructions.

Safety alert symbols



These safety symbols alert the user to a possible human risk.

Be sure to follow all safety instructions that follow these symbols to avoid accidents that could result in personal injury or death.

Precautionary statements

These warnings indicate situations that could result in death or serious injury of the rider or other persons involved, or damage to the watercraft, and instructions on how to avoid them. The following symbols are used to indicate the seriousness of the danger.

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.

NOTICE

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

NOTE

○ *NOTE* indicates information that may help or guide you in the operation or service of the vehicle.

About This Manual

Please keep this Owner's Manual for future reference. If you resell or transfer your JET SKI watercraft, be sure to provide this manual with the product.

Keep this Owner's Manual aboard your JET SKI watercraft in a waterproof bag at all times so that you can refer to it whenever necessary.

The information in this Owner's Manual may not completely match the actual product due to changes in the specifications.

Design Category

This craft is an inboard boat less than 4.8 m (16 ft) in length and, as such, is subject to all federal rules and regulations especially pertaining to boating safety and operation as enforced by the U.S. Coast Guard. States and local jurisdictions may have additional requirements for operation of powerboats in waters under their control. Additionally, other countries may have their own standards and regulations.

Please check your local boating laws and regulations before riding the watercraft.

WARNING

Engine exhaust, some of its constituents, and certain product components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.



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Quick Reference Guide

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

A Table of Contents is included after the Foreword.



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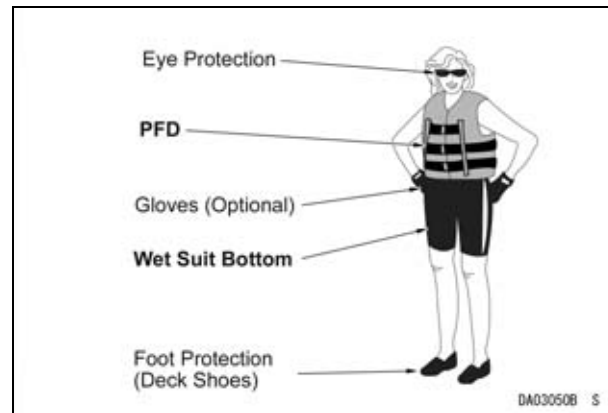
SAFETY INFORMATION

WARNING

Read Owner's Manual Thoroughly before Operation

- Carefully read the instructions in every WARNING message in the owner's manual and on every warning label on your JET SKI watercraft before operating. Be sure to observe these instructions.
- The owner's manual and the warning labels provide important safety information.

Wear PFD, Protective Clothing and Gear



Personal Flotation Device (PFD)

- All riders must wear a Coast Guard approved personal flotation device (PFD) that is suitable for personal watercraft (PWC) use. Kawasaki recommends a vest-type PFD.

Hard impact with the water can result in loss of consciousness and drowning.

- Make sure that your PFD fits correctly so that it does not come off in the water. Never use an adult size PFD for children.

8 SAFETY INFORMATION

Wet Suit Bottoms or Other Protective Clothing

- All riders must wear wet suit bottoms (neoprene shorts) or clothing that provides equivalent protection against possible injury to body cavities.
- Normal swimwear will not provide adequate protection.

Injury from Forced Injection of Water into Body Cavities (Rectum or Vagina)

- As a result of falling into water or being near the jet thrust nozzle, water can be forced into body cavities such as the rectum or vagina. This could cause damage to abdominal organs, possibly resulting in death or severe injury.



A. Jet Thrust Nozzle

 Important. Read this carefully.

- Wet suit bottoms are made of a thick material (neoprene) that significantly retards the velocity of water passing through it.
- In addition to wet suit bottoms, some other aquatic wear may protect against body cavity injuries.
- If wet suit bottoms are not available, you should select clothing that will maximize your protection. Materials that are thicker, have a tighter weave, are water repellent, or that are tighter fitting tend to provide more protection.
- Clothing that may be displaced by the force of water will not provide adequate protection.

Other Protective Gear

- Wear protective footwear, gloves and goggles (glasses).
- Wear suitable eye protection such as goggles while operating the watercraft. Water spray can damage your eyes, or momentarily interfere with your vision, which may lead to an accident. Floatable goggles are recommended.
- Wear foot protection such as deck shoes or tennis shoes. Submerged shells, rocks or other objects can injure your feet.



Important. Read this carefully.

Know Boating Laws

Kawasaki recommends a minimum operator age of 16 years old. Know the operator age and training requirements for your state or region. A boating safety course is recommended and may be required in your state or region.

Boat Smart from the Start

Take a boating safety course and get a free vessel safety check annually for your boat.

For more information contact: United States Coast Guard Auxiliary, www.cgaux.org / United States Power Squadrons, 888-for-usps, www.usps.org.



SAFETY INFORMATION 9

Occupants and Load Limit

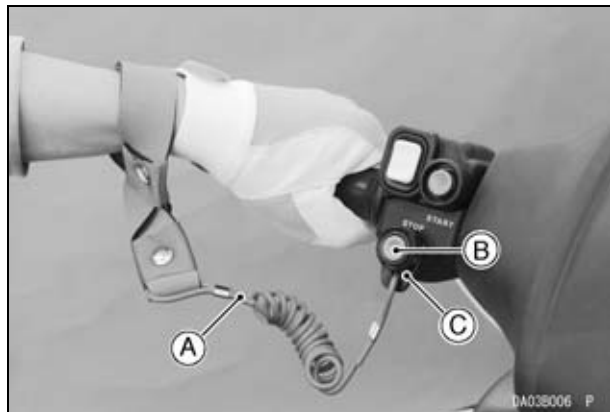
Occupants limit	3 persons (1 operator and 2 passengers)
	2 persons (1 operator and 1 observer) when towing a water skier, wakeboarder, or tuber
Load limit	225 kg (496 lb) including riders and cargo

- Exceeding the maximum number of occupants or the load limit can adversely affect the handling and stability of this watercraft, which can lead to an accident. Do not exceed the maximum capacity.
- All passengers must ride on the designated seats.

10 SAFETY INFORMATION

Attach Engine Shut-Off Cord (Lanyard)

- Attach the engine shut-off cord (lanyard) to your wrist whenever operating this watercraft so that the engine stops if the operator falls off.
- Keep the lanyard free from the handlebars or other objects.
- After riding, remove the lanyard from the watercraft to avoid unauthorized use by children or others.



- A. Engine Shut-Off Cord
- B. Engine Stop Button
- C. Lanyard Key

 Important. Read this carefully.

Ride within Your Limits

- Ride within your limits and avoid aggressive maneuvers to reduce the risk of loss of control, ejection, and collision.
 - The JET SKI watercraft is a high-performance boat - not a toy.
- Do not operate the watercraft with any passengers on board until you have enough operating experience alone. Operating the watercraft with passengers requires good operating skills. Be accustomed to the handling characteristics of the watercraft and do practice well before operating with a passenger.



Important. Read this carefully.

Do not Jump Wakes or Waves

- Sharp turns or jumping wakes or waves can increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles and other bones.



SAFETY INFORMATION 11

Never Ride after Consuming Drugs or Alcohol

- Never ride under the influence of or after consuming drugs or alcohol. Ensure your passengers are also free from drugs or alcohol.

12 SAFETY INFORMATION

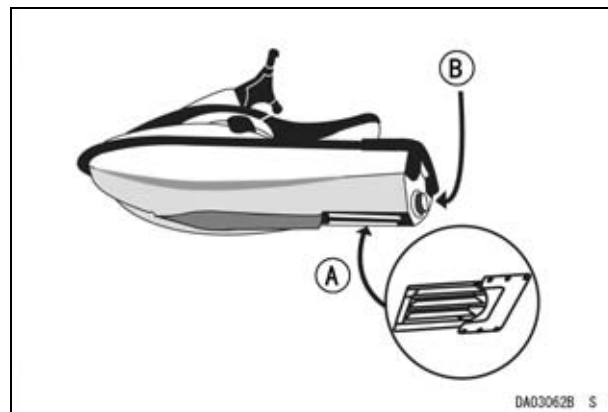
Do not Apply Throttle when Anyone is Behind

- Do not apply throttle when anyone is behind the JET SKI watercraft.
 - Turn the engine off or keep it at idle. Water and/or debris ejected from the jet thrust nozzle can cause severe injury.

 Important. Read this carefully.

Keep Away from Intake Grate

- Keep away from the intake grate while the engine is on.
 - Items such as long hair, loose clothing, or PFD (personal flotation device) straps can become entangled in moving parts, resulting in severe injury or drowning.



A. Intake Grate
B. Jet Thrust Nozzle

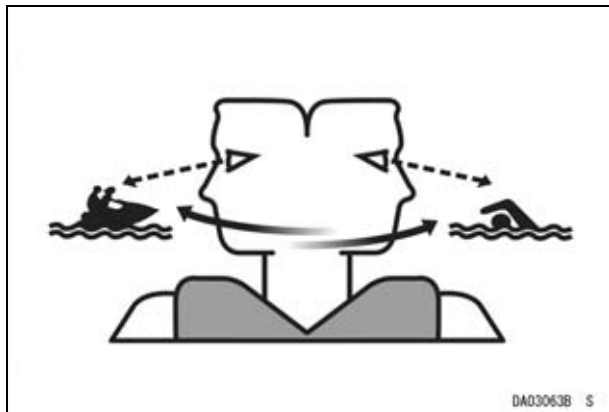
 Important. Read this carefully.

Avoid Collision

Collisions cause more injuries and deaths than any other type of personal watercraft accident.

To avoid collisions, know the characteristics of your watercraft and observe all warnings.

- Scan constantly for people, objects, and other watercraft.
 - Be alert for conditions that limit your visibility or block your vision of others.

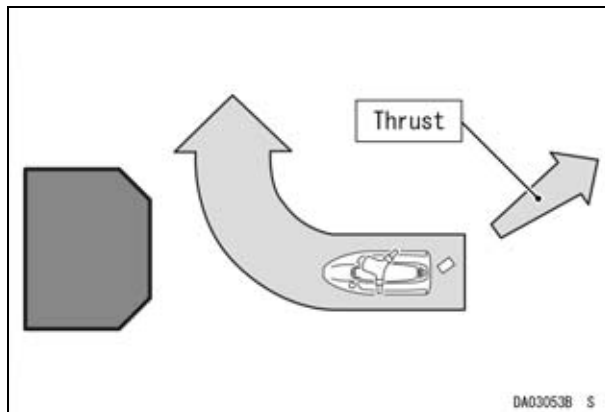


- Ride in safe water areas.
 - Operate defensively at safe speeds and keep a safe distance away from people, objects and other watercraft.
 - Do not follow directly behind other watercraft or boats.

SAFETY INFORMATION 13

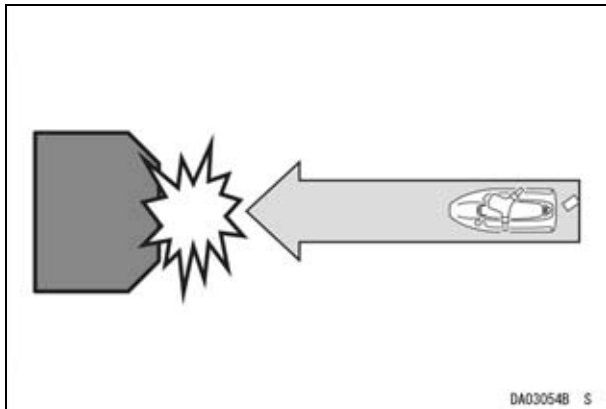
- Do not go near people or others to spray or splash them with water.
- Avoid sharp turns or other maneuvers that make it hard for others to avoid you or understand where you are going.
- Avoid areas with submerged objects or shallow waters.
- Take early action to avoid collisions. Remember personal watercraft and other boats do not have brakes.
- Do not release the throttle when trying to steer away from objects. You need throttle to steer.
 - To avoid collisions you must have thrust to turn.

Turn with Thrust



14 SAFETY INFORMATION

No Thrust = No Turn

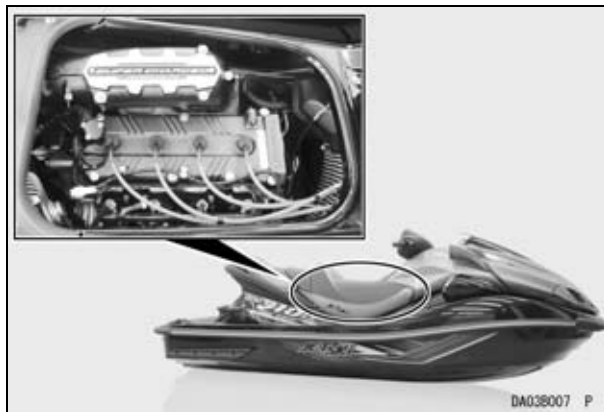


- Do not stop the engine to avoid a collision.
 - If you push the stop button or remove the engine shut-off cord (lanyard) key and the engine stops, you will no longer be able to steer the watercraft.
- Ride within your skill limits. Riding too fast for your skills is one of the major causes of collisions.
 - Overspeed is one of the major causes of collisions.
 - Unskilled operators should use the Smart Learning Operation (SLO) mode, which reduces the maximum watercraft speed.

 Important. Read this carefully.

Ventilate Engine Compartment

- Open the engine compartment to ventilate it before starting the engine. A concentration of gasoline fumes can cause a fire or explosion. Do not start the engine if there is a fuel leak or gasoline fumes.
- Before each ride, and after refueling or transportation, ventilate the engine compartment for several minutes with the storage compartment lid open and the seats removed.

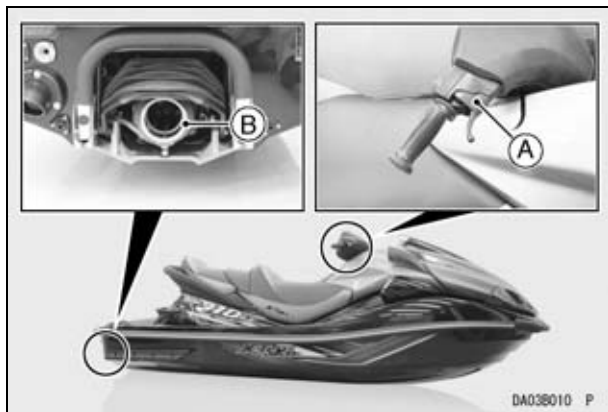


 Important. Read this carefully.

Keep Your Watercraft in Safe Condition

Pre-Ride Check

- Check the throttle lever and steering system (Handlebars and Steering Nozzle) for proper operation before riding the watercraft.



A. Throttle Lever

B. Steering Nozzle (Jet Nozzle)

- Check the battery, fuel, oil and other items in the Pre-Ride Checklist of this owner's manual.

SAFETY INFORMATION 15

Regular Maintenance / Modification

- Maintain your watercraft for safe operation by carrying out all maintenance items in the MAIN-TENANCE AND ADJUSTMENTS section of this owner's manual.
- Modifications to your watercraft may affect its stability or handling, and result in an unsafe riding condition or illegal condition for use. Do not use non-Kawasaki Parts and Accessories on your watercraft.

16 SAFETY INFORMATION

Never Operate after Dark

- Do not operate the watercraft after dark. It is not designed for night use, and has no lighting equipment.

 Important. Read this carefully.

Follow Rules

- Follow all navigation rules and state and local laws that apply to PWCs.

 Important. Read this carefully.
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18 SAFETY INFORMATION

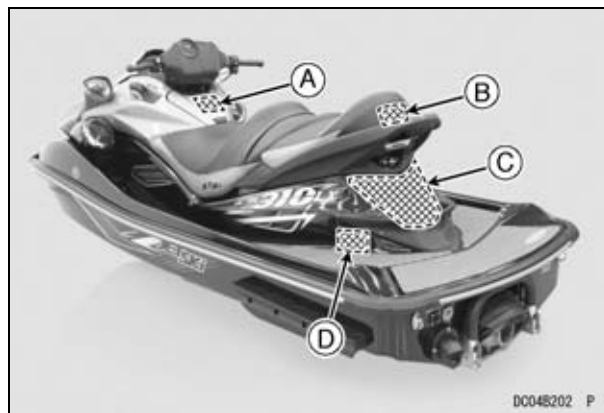
Label Location

All warning labels on the vehicle are repeated here. Read the labels and understand them thoroughly. They contain information that is important for your safety and the safety of anyone else who may operate your vehicle. Therefore, it is very important that all warning labels be on your vehicle 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.

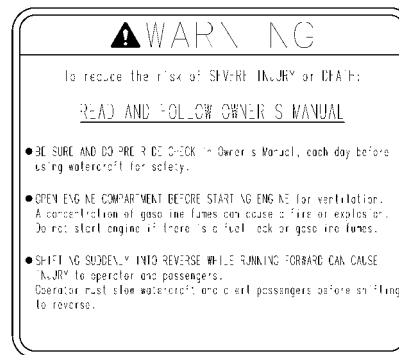
NOTE

- *The sample warning labels in this section have part numbers to help you obtain the correct replacement.*
- *Refer to the actual vehicle label for model specific data shaded in the illustration.*

 Important. Read this carefully.



(A)



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DC05612B S

 Important. Read this carefully.

(B)

⚠ WARNING

WEAR PROTECTIVE CLOTHING.

Severe internal injuries can occur if water is forced into body cavities as a result of falling into water or being near jet thrust nozzle.

- Normal swimwear does not adequately protect against forceful water entry into rectum or vagina.
- All riders must wear a wet suit bottom or clothing that provides equivalent protection.

See Owner's Manual



DC05627B S

(C)

⚠ WARNING

- Do not use reboarding step while engine is running.
- Do not use reboarding step to pull anyone or anything. Improper use can result in serious injury.

NOTICE

When rolling the craft onto its side, turn it in this direction only.



Kawasaki Motors Corp., U.S.A.
P.O. Box 25232 Santa Ana, CA 92799-5232

THIS BOAT HAS BEEN EXEMPTED FROM COMPLIANCE
STANDARDS IN EFFECT ON THE DATE OF CERTIFICATION:

- Display of Capacity Information
- Title/Loading
- Flotation
- Fuel System
- Electrical System
- Powered Ventilation

AS AUTHORIZED BY U.S. COAST
GUARD GRANT OF EXEMPTION
(CGSD 80-018)

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20 SAFETY INFORMATION

(C)

 Important. Read this carefully.

WARNING

To reduce the risk of **SEVERE INJURY or DEATH:**

WEAR A PERSONAL FLOTATION DEVICE (PFD).
All riders must wear a Coast Guard approved PFD that is suitable for personal watercraft (PWC) use.

WEAR PROTECTIVE CLOTHING. Severe internal injuries can occur if water is forced into body cavities as a result of falling into water or being near jet thrust nozzle. Normal swimwear does not adequately protect against forceful water entry into rectum or vagina. All riders must wear a wet suit bottom or clothing that provides equivalent protection (see Owner's Manual). Footwear, gloves, and goggles/goggles are recommended.

KNOW BOATING LAWS. Kawasaki recommends a minimum operator age of 16 years old. Know the operator age and training requirements for your state. A boating safety course is recommended and may be required in your state.

ATTACH ENGINE SHUT-OFF CORD (LANYARD) to wrist and keep it free from handlebars so that engine stops if operator falls off. After riding, remove cord from PWC to avoid unauthorized use by children or others.

RIDE WITHIN YOUR LIMITS AND AVOID AGGRESSIVE MANEUVERS to reduce the risk of loss of control, ejection, and collision. This is a high performance boat - not a toy. Sharp turns or jumping wakes can increase the risk of back/splinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones. Do not jump wakes or waves.

DO NOT APPLY THROTTLE WHEN ANYONE IS AT REAR OF PWC - turn engine off or keep engine at idle. Water and/or debris exiting jet thrust nozzle can cause severe injury.

KEEP AWAY FROM INTAKE GRATE while engine is on. Items such as long hair, loose clothing, or PFD straps can become entangled in moving parts resulting in severe injury or drowning.

NEVER RIDE AFTER CONSUMING DRUGS OR ALCOHOL.

READ AND FOLLOW OWNER'S MANUAL.



WARNING

Collisions result in more **INJURIES AND DEATHS** than any other type of accident for personal watercraft (PWC).

TO AVOID COLLISIONS:

SCAN CONSTANTLY for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.

OPERATE DEFENSIVELY at safe speeds and keep a safe distance away from people, objects, and other watercraft.

- Do not follow directly behind PWCs or other boats.
- Do not go near others to spray or splash them with water.
- Avoid sharp turns or other maneuvers that make it hard for others to avoid you or understand where you are going.
- Avoid areas with submerged objects or shallow water.

TAKE EARLY ACTION to avoid collisions. Remember, PWCs and other boats do not have brakes.

DO NOT RELEASE THROTTLE WHEN TRYING TO STEER away from objects - you need throttle to steer. Always check throttle and steering controls for proper operation before starting PWC.

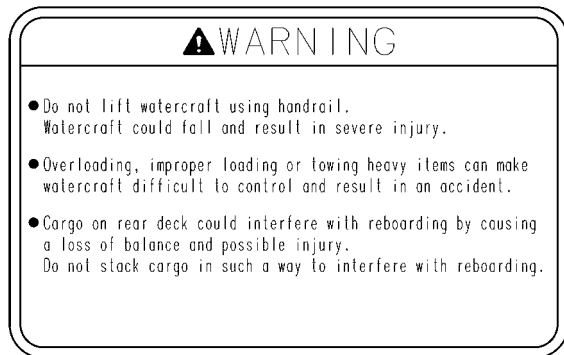
Follow navigation rules and state and local laws that apply to PWCs. See Owner's Manual for more information.



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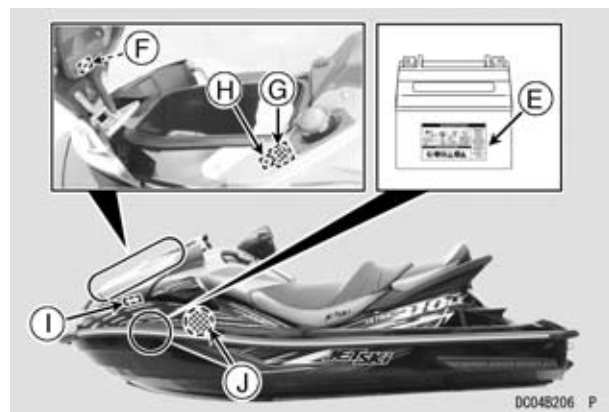
 Important. Read this carefully.

(D)



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22 SAFETY INFORMATION



(E)

 DANGER/POISON			
 SHIELD EYES EXPLOSIVE GASES CAN CAUSE BLINDNESS OR INJURY.	 NO SPARKS FLAMES SMOKING	 SULFURIC ACID CAN CAUSE BLINDNESS OR SEVERE BURNS.	 FLUSH EYES IMMEDIATELY WITH WATER. GET MEDICAL HELP FAST.
KEEP OUT OF REACH OF CHILDREN			
PROPOSITION 65 WARNING BATTERY POSTS, TERMINALS, AND RELATED ACCESSORIES CONTAIN LEAD AND LEAD COMPOUNDS, CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND REPRODUCTIVE HARM. BATTERIES ALSO CONTAIN OTHER CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. WASH HANDS AFTER HANDLING. SPSYMBWPO			
     			

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 Important. Read this carefully.

(F)

		WARNING	
Do not incinerate, puncture or open.			
Kawasaki	56070-3876	56070-3876	DC05028BN6 C

(G)

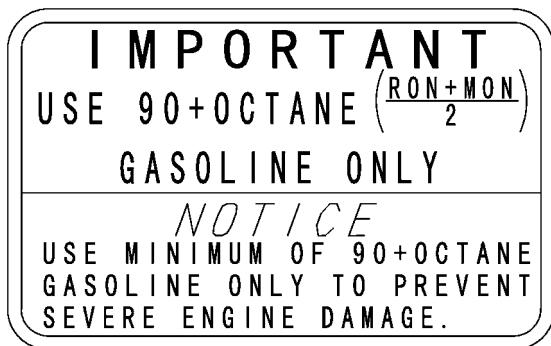
	WARNING
Gasoline is extremely flammable and can be explosive. A fire or explosion can cause injury or death.	
Shut engine off. Do not smoke. Do not overfill fuel tank. Refuel in a well ventilated area away from flame or sparks.	

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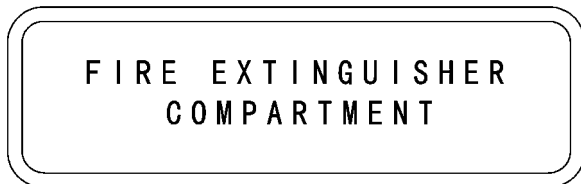
 Important. Read this carefully.

(H)



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(I)



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DC05029BM2 C

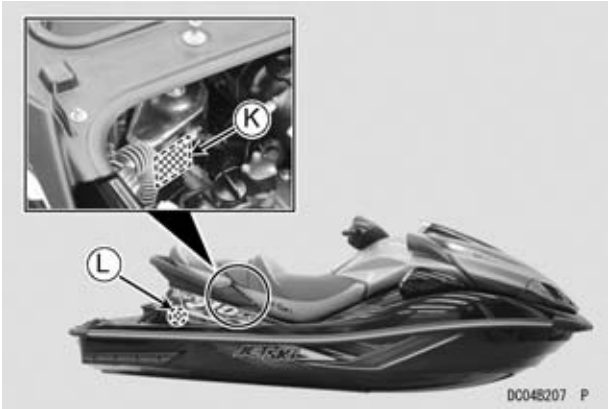
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(J) For detail explanation see APPENDIX (page 192)



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24 **SAFETY INFORMATION**



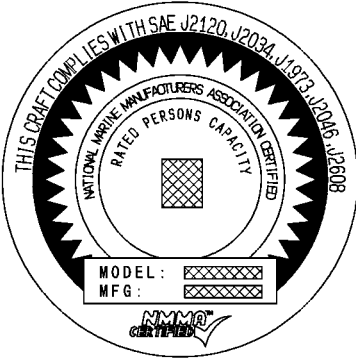
(K)

EMISSION CONTROL INFORMATION	
ENGINE FAMILY	XXXXXX
MODEL	XXXXXX
EXHAUST EMISSION CONTROL SYSTEM	XXXXXX
FAMILY EMISSION LIMIT - HC+NOX	XXXXXX
FAMILY EMISSION LIMIT - CO	XXXXXX
DATE OF MANUFACTURE	XXXXXX
ENGINE DISPLACEMENT	XXXXXX
MAXIMUM HORSEPOWER	XXXXXX
ENGINE TUNE UP SPECIFICATIONS	
SPARK PLUG: XXXX GAP: XXXX	
IDLE SPEED: XXXX	
THIS ENGINE CONFORMS TO XXXX MODEL YEAR U.S. EPA EXH/EVP AND CALIFORNIA EMISSIONS REGULATIONS FOR SPARK-IGNITION MARINE ENGINES. REFER TO THE OWNER'S MANUAL FOR MAINTENANCE SPECIFICATIONS AND ADJUSTMENTS.	
KAWASAKI HEAVY INDUSTRIES, LTD. 	

DC05563BM2 C

 Important. Read this carefully.

(L)



DC05650BM2 C

 Important. Read this carefully.



DC048208 P

(M)

NOTICE

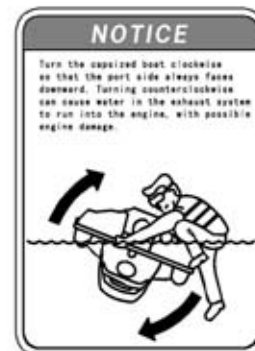
Engine Flushing Port (Black) Run the engine at idle while flushing the engine cooling system.	Intercooler Flushing Port (Gray) - Intercooler flushing only: - Do not run the engine during flushing the intercooler. - If the intercooler and engine are flushed simultaneously: - Be sure to supply water to the engine cooling system. - In order to avoid water intrusion into the engine, do not shut the engine off while the water is flowing. Improper flushing could result in engine damage. Consult your Owner's Manual for additional information.
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SAFETY INFORMATION 25

(N)



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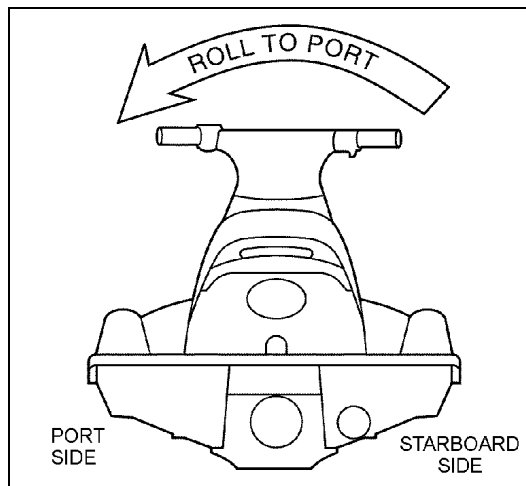
PREVENT MAJOR DAMAGE

NOTICE

Certain conditions can cause major damage to your watercraft that is costly to repair. To avoid these conditions carefully read the following section and follow the recommendations to help prevent major damage to your watercraft.

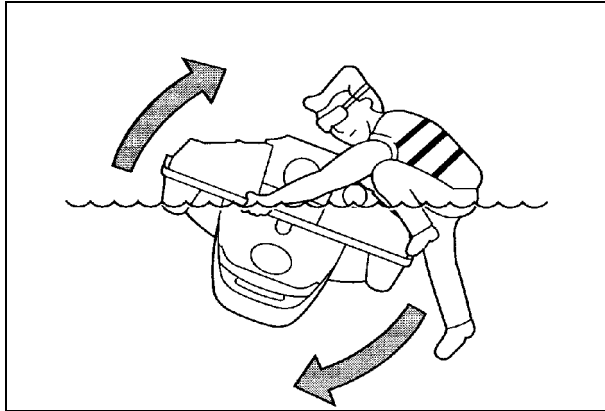
Tilting the Watercraft

- Tilting the watercraft to its STARBOARD side can cause water in the exhaust system to run into the engine, with possible engine damage. Always tilt the boat on its PORT side if it is necessary to inspect the bottom of the craft.



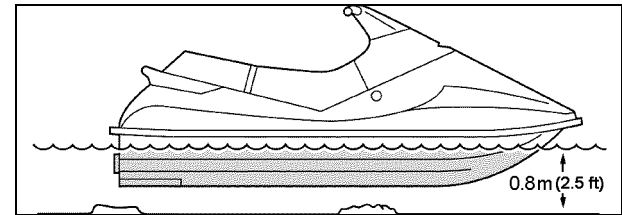
Righting Capsized Watercraft

- Rolling the capsized watercraft counterclockwise (to its STARBOARD side) can cause water in the exhaust system to run into the engine, with possible engine damage. Always turn the capsized boat clockwise so that the PORT side always faces downward.
- For details on righting, refer to Righting the Capsized Watercraft section in the OPERATING INSTRUCTIONS chapter.



Shallow Water

- When starting the engine or riding, the watercraft must be in water at least 0.8 m (2.5 ft) deep. Sand or debris from the bottom may be drawn into the jet pump and damage the pump and impeller, and possibly clog cooling lines.



- If operating in shallow or debris-laden water, objects or sand from the bottom can get sucked in damaging the impeller and possibly clogging cooling hoses which can cause severe engine damage from overheating.
- Avoid beaching the watercraft. Stones and sand can scratch the hull and be drawn into the jet pump, causing damage to the impeller.

Wave Jumping

- Jumping waves can overstress the watercraft hull and cause it to crack. To prevent hull cracks, do not jump waves.

After Daily Riding

Supercharger Lubrication

Moisture in the air drawn through the supercharger during use can condense after the engine is stopped and not used for prolonged periods, often creating mineral deposits on internal parts that may lead to supercharger lock-up, particularly if the watercraft has been used in salt water. At the end of each day's use, oil the supercharger to prevent the formation of mineral deposits (see the Supercharger section in the MAINTENANCE AND ADJUSTMENT chapter).

Remove JET SKI Watercraft from the Water at the End of Each Day's Use

Since JET SKI watercraft are not designed to be docked in water for extended periods, prolonged immersion will cause the hull paint to bubble and peel, as well as electrolytic erosion of some metal parts in the jet pump. To prevent this damage and electrolytic erosion, remove your JET SKI watercraft from the water at the end of each day's use; do not leave it in the water overnight. Your JET SKI watercraft will last longer and look better if you do this.

Drain the Exhaust System

To prevent major engine damage and to help prolong the life of the exhaust filter, you must perform the following procedure to expel excess water from the exhaust system. This helps prevent premature wear due to internal engine corrosion and the build up of salt or other mineral deposits that can lead to cooling system blockage and overheating.

- After each use in fresh water, remove the watercraft from the water.
- Start the engine and run it for several seconds to purge the exhaust system of excess water. Rev the engine repeatedly, until water stops coming out of the exhaust at the stern.

NOTICE

To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

- After each use in salt water, flush the cooling system with fresh water (see the Cooling System Flushing section in the MAINTENANCE AND ADJUSTMENTS chapter).

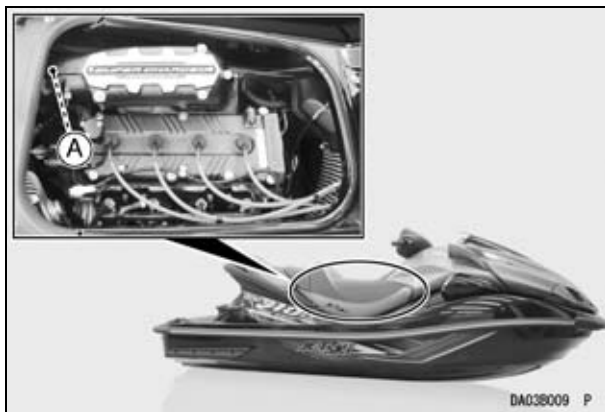
Jet Pump and Seals Periodic Maintenance

- The jet pump bearings and seals require periodic service. Major engine damage can occur if the jet pump bearings fail due to lack of maintenance. Have your Kawasaki dealer inspect the jet pump bearings and seals after the first 25 hours of use or after one year, whichever comes first; and then every 50 hours or every year, whichever comes first. The jet pump bearings should also be serviced before any prolonged storage to prevent any water that may be left in the pump from corroding the bearings and causing premature failure.

30 PREVENT MAJOR DAMAGE

Exhaust Filter Maintenance

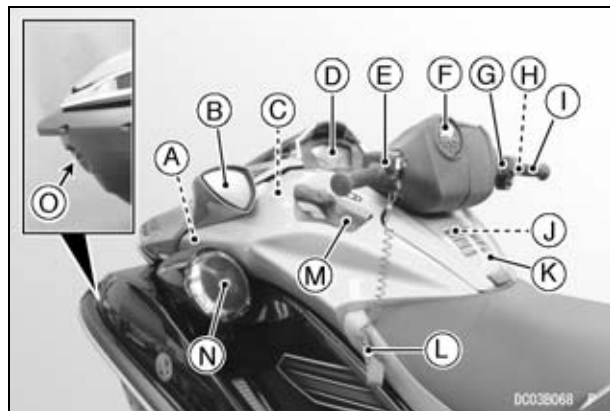
- The exhaust filter at the exhaust pipe requires periodic inspection in accordance with the Periodic Maintenance Chart section in the MAINTENANCE AND ADJUSTMENTS chapter and must be replaced with a new one if it deteriorates or is damaged.
- Have your Kawasaki dealer inspect the exhaust filter. If the filter (core) deteriorates and starts breaking away, it loses its efficiency of filtering/blocking the water into the combustion chamber. The engine can suffer various malfunctions and damages such as hard restarting, water in crankcase, corroded engine parts, stuck/seized spark plugs, etc.



A. Exhaust Filter

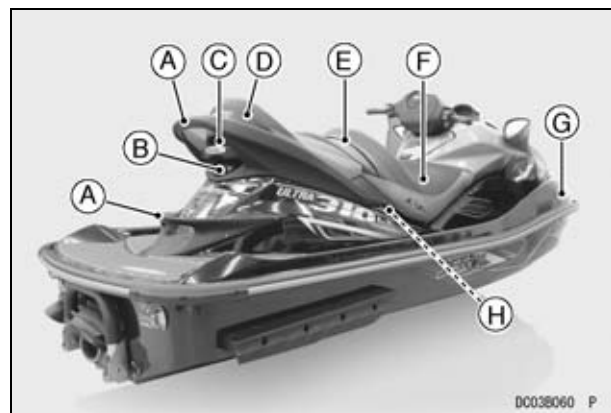
GENERAL INFORMATION

Parts Location

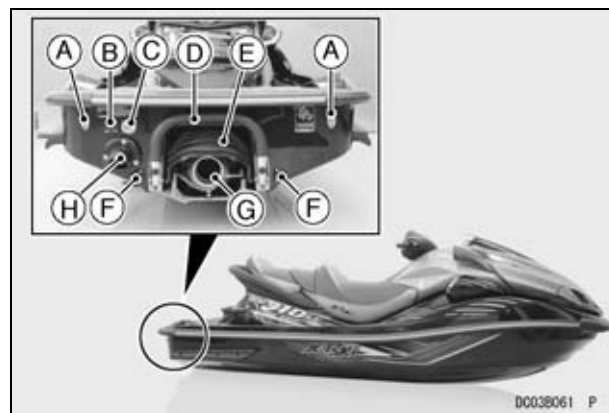


- A. Battery
- B. Rear View Mirror
- C. Front Storage Case
- D. Multifunction Meter
- E. Left Handlebar Switch Housing
 - Engine Start/Stop Button
 - Fuel Economy Assistance Mode Button
 - Electric Trim-control Button
- F. Audio Unit (JT1500M)
- G. Right Handlebar Switch Housing
 - Electronic Cruise Control Button
 - (UP/DOWN/SET)
- H. Throttle Lever
- I. Handlebars
- J. Ignition Switch
- K. Center Storage Case
- L. Engine Shut-off Lanyard
- M. Shift Lever
- N. Speaker (JT1500M)
- O. Bow Eye

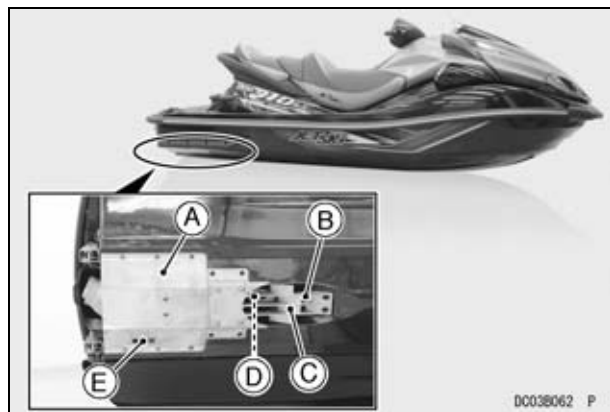
32 GENERAL INFORMATION



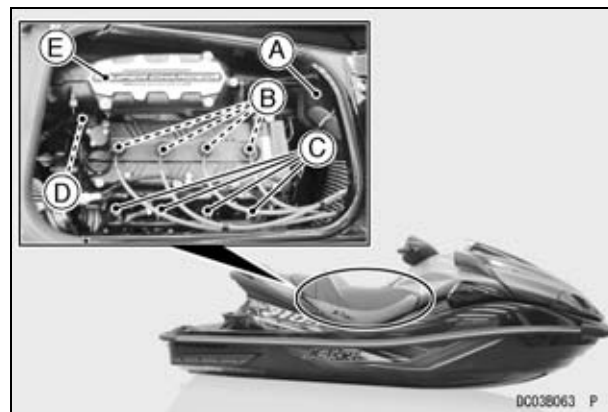
- A. Handrails
- B. Ski Tow Eye
- C. Seat Latch
- D. Rear Seat
- E. Hand Strap
- F. Front Seat
- G. Bypass Outlet
- H. Engine Compartment



- A. Stern Eyes
- B. Engine Flushing Port
- C. Intercooler Flushing Port
- D. Reboarding Step
- E. Reverse Bucket
- F. Drain Screws
- G. Steering Nozzle
- H. Exhaust Outlet



- A. Jet Pump Cover
- B. Water Intake
- C. Grate
- D. Drive Shaft
- E. Speed Sensor



- A. Air Box
- B. Spark Plugs
- C. Fuel Injectors
- D. Supercharger
- E. Exhaust Pipe

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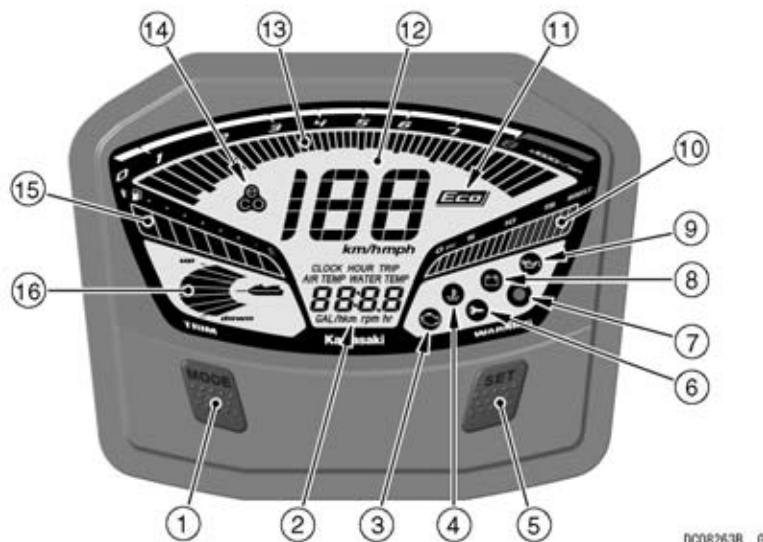
Multifunction Meter

In front of the handlebars is a multifunction meter. When the ignition switch is turned on, all displays on the panel are shown; the warning indicator light is on and a buzzer will sound twice. After this self-check procedure, the meter display shows the normal readings.

NOTE

○ *The display will go off 3 minutes after stopping the engine using the engine stop lanyard or stop button.*

- *The “MODE” button operates when the engine is running slower than 3 000 rpm.*
- *When the warning indicator light goes on, an intermittent buzzer sounds. This buzzer sound can be stopped by pushing either “SET” or “MODE” button.*
- *To turn off the blinking warning indicator light, hold down either “SET” or “MODE” button for more than one second.*
- *Then the “MODE” button can be operated normally.*



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- | | |
|---|---------------------------------------|
| 1. "MODE" Button | 6. Immobilizer Indicator |
| 2. Multifunction Display | 7. Red Warning Indicator Light |
| Clock | 8. Low Battery Voltage Indicator |
| Time/Trip/Hour Meters | 9. Engine Oil Pressure Indicator |
| Tachometer (Numerical Value) | 10. Boost Meter |
| Maximum Speed & Engine rpm | 11. Fuel Economy Assistance Indicator |
| Water Temperature | 12. Speedometer |
| Outside Temperature | 13. Tachometer |
| Fuel Consumption | 14. Economical Riding Indicator |
| 3. Engine Warning Indicator | 15. Fuel Level Gauge |
| 4. Engine Cooling Water Temperature Indicator | 16. Electric Trim-control Indicator |
| 5. "SET" Button | |

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Speedometer

The speedometer shows the watercraft speed. During a sharp turn the speed shown can be 10 to 20 km/h (6 to 12 mph) lower than the actual speed.



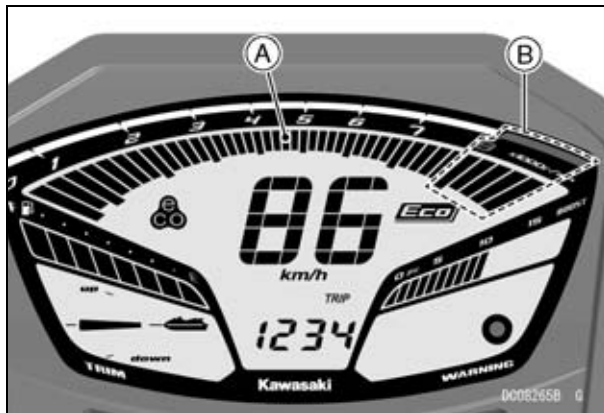
A. Speedometer

NOTE

- You can change the speedometer display from km/h to mile/h and vice-versa, see the Hour Meter section for details.
- The display range of the speed is 0 to 108 km/h (0 to 67 mph).
- If the speed exceeds 108 km/h (67 mph), the display is stopped and locked.
- When the speed is less than 3 km/h or 3 mph, the meter displays 0 km/h or 0 mph.

Tachometer

The tachometer shows the engine speed in revolutions per minute (rpm). On the right side of the tachometer face is a portion called the “red zone”. Engine r/min (rpm) in the red zone is above maximum recommended engine speed and is also above the range for optimum performance.



A. Tachometer
B. Red Zone

NOTICE

Operating the engine at high rpm in the red zone will overstress the engine and may cause serious engine damage. To prevent engine damage, do not allow engine rpm to enter the red zone.

Boost Meter

The boost meter segments show the amount of boost pressure produced by the supercharger.

If the segments do not go on when the engine is running, have your authorized JET SKI watercraft dealer check the supercharger and meter unit.



A. Boost Meter

Multifunction Displays

The Clock, Time/Trip/Hour Meters, Tachometer, Maximum Speed & Engine rpm, Water Temperature, Outside Temperature and two Fuel Consumptions will be displayed under the speedometer. Pushing the “MODE” button, shifts the display. These modes will shift in series if the “MODE” button is pressed for 2 seconds or more.

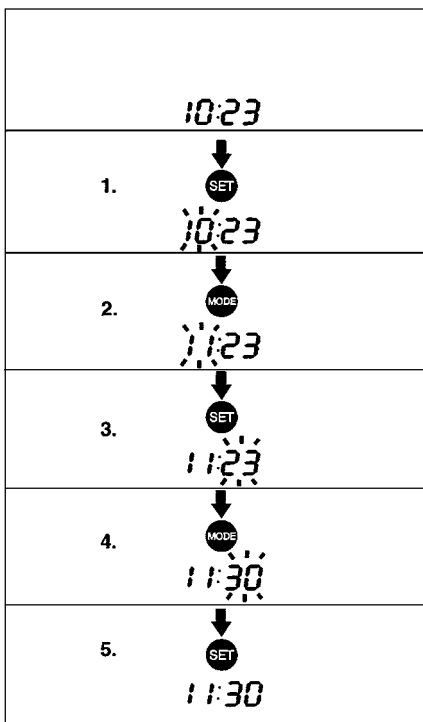
Clock



To adjust the clock:

1. Push the “SET” button for 2 seconds or more. The hour display starts blinking.
2. Push the “MODE” button to advance the hours.
3. Push the “SET” button. The hour display stops blinking and the minutes display starts blinking.
4. Push the “MODE” button to advance the minutes.
5. Push the “SET” button. The minutes display stops blinking and the clock starts working.

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NOTE

- Briefly pushing the “MODE” button advances the hours or minutes step by step. Holding the button down advances the hours or minutes continuously.
- The clock works normally from the back-up power while the ignition switch is turned off.
- When the battery is disconnected, the clock resets to 12:00, and starts working again when a battery is connected.

Time Meter

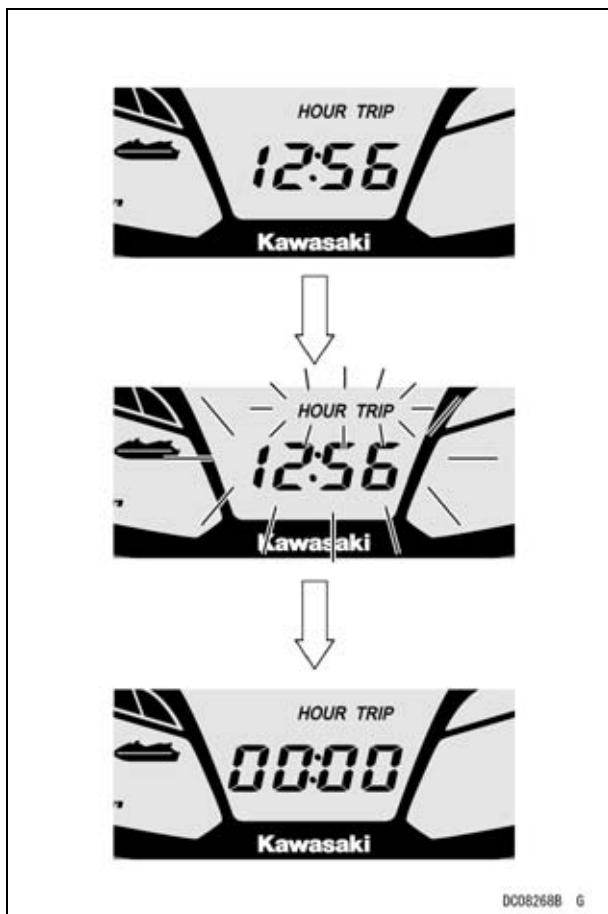
The time meter shows the time elapsed since it was last reset to zero.

To reset the time meter:

1. Push and hold the “SET” button. All the displays in this mode start blinking.
2. After two seconds the displays stop blinking and the hour and minute display turns back to 00:00, and then starts working, if the engine is running. The meter operates until it is reset.

NOTE

- When the time reaches 99:59, it turns back to 00:00 and starts counting again.
- When the battery is disconnected, the time display resets to 00:00.



Trip Meter

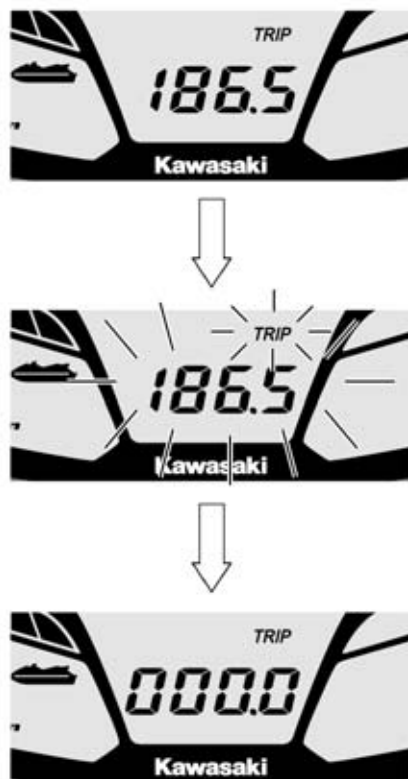
The trip meter shows the distance traveled since it was last reset to zero.

To reset the trip meter:

1. Push the "SET" button and hold it in. All the displays in this mode start blinking. The trip meter can be reset when the craft is stopped.
2. After two seconds the displays stop blinking and the trip meter turns to 000.0, and then starts counting when the craft is operated. The meter operates until it is reset.

NOTE

- If the meter reaches 999.9 when the craft is running, it will reset to 000.0 and start counting again.
- When the battery is disconnected, the meter display resets to 000.0.



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Hour Meter

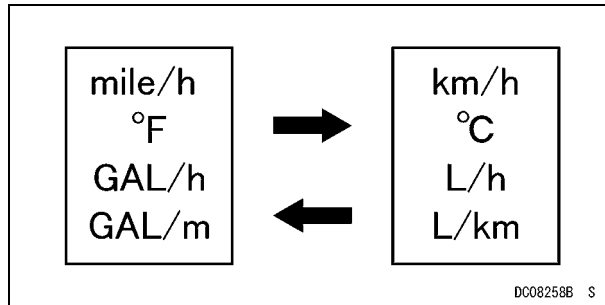
The hour meter shows the total hours that the watercraft has been operated. This meter cannot be reset.



NOTE

- The data is maintained even if the battery is disconnected.
- When the figures reach 9999, they reset to 0000 and start counting upward again when the craft is operated.

You can change the meter unit setting by pushing the "SET" button for more than 3 seconds. The units change in the following order.



Tachometer (Numerical Value)

The tachometer shows the engine speed in revolutions per minute (rpm).



Maximum Speed & Engine rpm

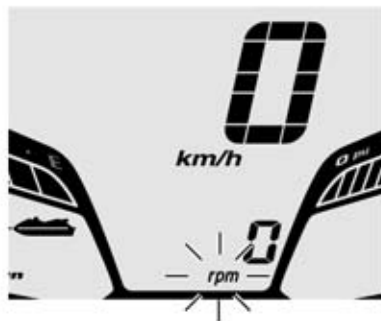
The maximum speed recorded since last reset and its corresponding engine rpm are shown. "rpm" symbol blinks in this mode.



To reset this record:

1. Push the "SET" button and hold it.
All the displays in this mode start blinking.
2. After two seconds the display stops blinking and reverts to 0.

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Water Temperature

This shows the water temperature in degrees Centigrade (or Fahrenheit) and the display is refreshed every 5 seconds.



Outside Temperature

This shows the ambient (or outside) temperature in degrees Centigrade (or Fahrenheit) and the display is refreshed every 5 seconds.



Fuel Consumptions

This display shows the two types of fuel consumption by numerical value as follows. The first is the amount of fuel used per hour.

The unit is L/h or GAL/h.



The second is amount of fuel used over a certain distance.

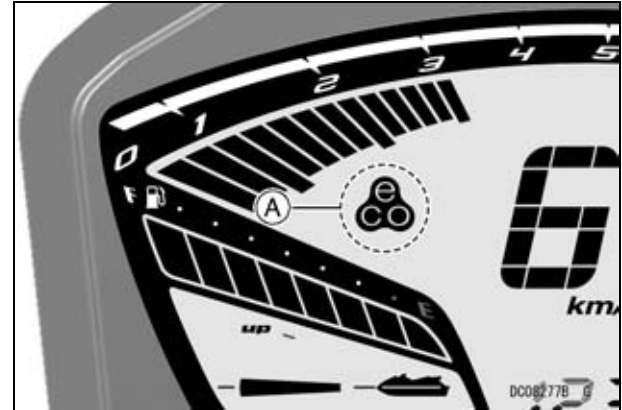
The unit is L/km or GAL/m.



The fuel consumption display is renewed every second.

Economical Riding Indicator

When the operator is driving the watercraft for optimum fuel-efficiency, the economical riding indicator appears on the multifunction meter to indicate favorable fuel consumption. Monitoring the economical riding indicator can help the rider maximize fuel efficiency.



A. Economical Riding Indicator

⚠ WARNING

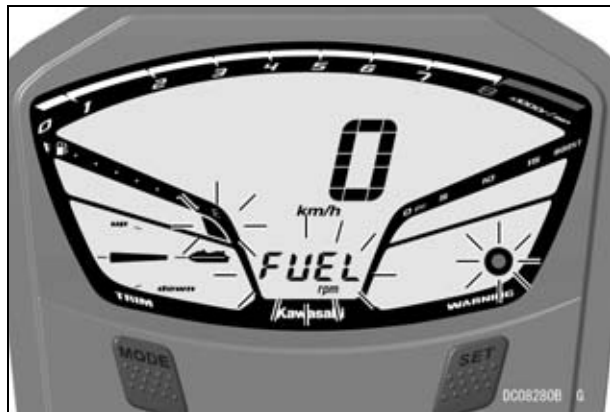
Failing to properly observe your surroundings increases the chance of collisions. To help prevent collisions, do not concentrate on the economical riding indicator by taking your eyes off your surroundings; observe the indicator using peripheral vision.

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Fuel Level Gauge/“FUEL”

Character/Red Warning Indicator Light

The fuel level is shown in segments. All fuel segments are displayed when the fuel tank is full. As the fuel is consumed, the segments go out accordingly. When the last segment is reached, it begins blinking. The warning indicator light goes on, “FUEL” blinks and a buzzer sounds. To stop the buzzer, press any button for more than a second. When the low fuel indicator begins blinking, 28 liters (7.4 U.S. gal) of fuel remain. Reduce speed to less than half-throttle and fill the fuel tank as soon as possible because there is no reserve tank in this watercraft (See the Fuel and Controls sections).



Engine Oil Pressure Indicator/“OILP”

Character/Red Warning Indicator Light

The warning indicator light goes on, the engine oil pressure indicator and “OILP” blink and a buzzer sounds whenever the oil pressure is dangerously low. The engine speed will automatically be limited to 3 000 rpm. Return to shore immediately and fill the oil as soon as possible (See the Engine Oil section in the MAINTENANCE AND ADJUSTMENTS chapter). To stop the buzzer, press any button for more than a second.

NOTE

- The warning indicator light will remain on after the watercraft is capsized and righted if the ignition key is on.



Engine Cooling Water Temperature Indicator/"HEAT" character/Red Warning Indicator Light

If the engine cooling water temperature gets too high, the warning indicator light goes on, the engine cooling water temperature indicator and "HEAT" blink and a buzzer sounds to warn the operator. The engine speed will automatically be limited to 3 000 rpm. Return to shore immediately and check the cooling system for clogging (see the Special Procedures section in the Operating Instructions chapter). To stop the buzzer, press any button for more than a second.

NOTICE

To prevent engine damage, do not operate the craft until the cause of overheating is corrected.



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Low Battery Voltage Indicator/“bAt” Character/Red Warning Indicator Light

The warning light goes on, the low battery voltage indicator and “bAt” blink and a buzzer sounds to warn the operator when the battery voltage is less than 11.5 volts. If the low battery voltage indicator blinks, return to shore immediately.

Remove your watercraft’s battery and charge it. To stop the buzzer, press any button for more than a second.



Engine Oil Temperature Indicator/ “OILt” Character/Red Warning Indicator Light

If the engine oil temperature sensor malfunctions, the warning indicator light goes on, the engine oil pressure indicator and “OILt” blink and a buzzer sounds. The engine speed will automatically be limited to 3 000 rpm.

Return to shore immediately and have your authorized Kawasaki JET SKI watercraft dealer check your boat to determine the problem. To stop the buzzer, press any button for more than a second.



Engine Oil Overheat Indicator/“OILH” Character/Red Warning Indicator Light

If the engine oil temperature gets too high, the warning indicator light goes on and the engine oil pressure indicator blinks and a buzzer sound to warn the operator. Also “OILH” character starts blinking.

The engine speed will automatically be limited to 3 000 rpm. Return to shore immediately and check the cooling system for clogging and engine oil level. If the cause is other than a clogged cooling system or low oil level, have your authorized Kawasaki JET SKI watercraft dealer check your PWC to determine the problem (see the TROUBLE SHOOTING Guide section for instances when the engine speed will automatically be limited to 3 000 rpm).

To stop the buzzer, press any button for more than a second.



Engine Warning Indicator/“FI” Character/Red Warning Indicator Light

If the fuel-injection-related parts and the electronic throttle valve (ETV) system and the electronic trim-control system malfunction, the warning indicator light goes on, the engine warning indicator and “FI” blink and a buzzer sounds to warn the operator.

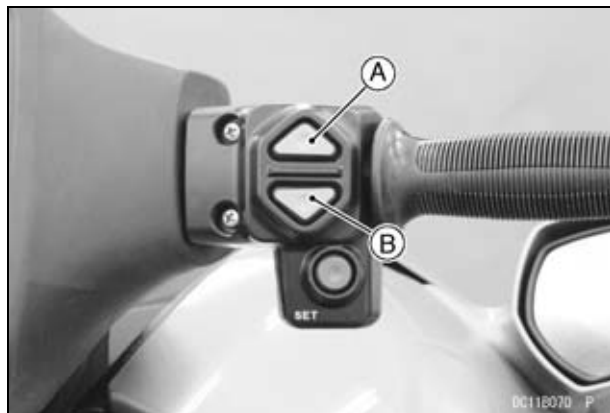
Return to shore immediately and have your authorized Kawasaki JET SKI watercraft dealer check your PWC to determine the problem. To stop the buzzer, press any button for more than a second.

Depending on the problem the engine speed will automatically be limited to 3 000 rpm.



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Under some failure conditions to the ETV system, engine speed may not increase from the idle speed even if the throttle lever is squeezed. Push the Electronic Cruise Control up button to increase the engine speed in 250 rpm increments to 2 500 rpm. One push of the Electronic Cruise Control down button will return the engine to idle speed.

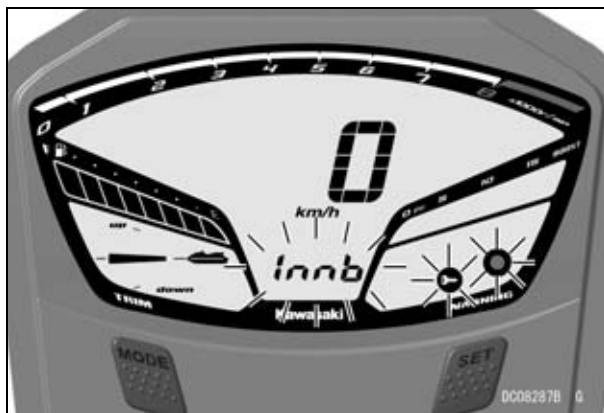


A. Up Button
B. Down Button

Immobilizer Amplifier Indicator/"Innb" Character/Red Warning Indicator Light

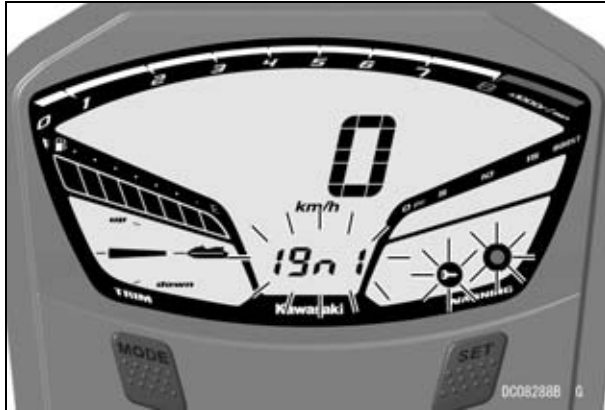
If the amplifier for the immobilizer system malfunctions, the warning indicator light, the immobilizer indicator and "Innb" blink and a buzzer sounds. Have your authorized Kawasaki JET SKI watercraft dealer check your boat.

To stop the buzzer, press any button for more than a second.



Immobilizer Key Matching Indicator/“I9n!” Character/Red Warning Indicator Light

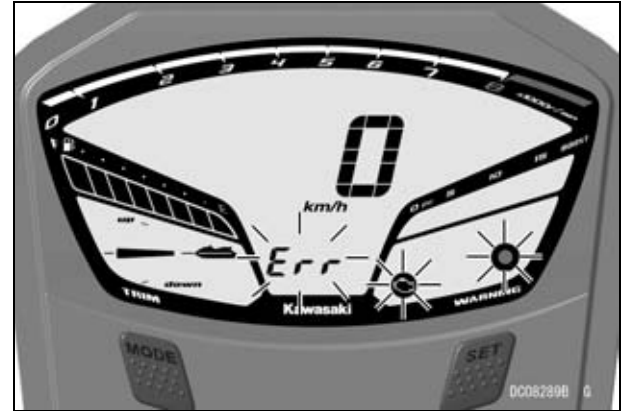
If a key other than that registered to your watercraft is tried, the warning indicator light, the immobilizer indicator and “I9n!” blink and a buzzer sound.



Communication Trouble Indicator/“Err” Character/Red Warning Indicator Light

If there is a communication problem between the multifunction meter and the Electronic Control Unit (ECU), the warning indicator light goes on, the engine warning indicator and “Err” blink and a buzzer sounds. Have your authorized Kawasaki JET SKI watercraft dealer check your boat.

To stop the buzzer, press any button for more than a second.



Engine Cooling Water Temperature Indicator/“AlrH” character/Red Warning Indicator Light

If the intake air temperature gets too high, the warning indicator light goes on and the engine cooling water temperature indicator blinks with buzzer sound to warn the operator. Also “AlrH” character under the speedometer blinks. The engine speed is automatically controlled to 3 000 rpm. Return to shore at low speed and have your authorized Kawasaki JET SKI watercraft dealer check your boat. To stop the buzzer, press any button for more than a second.

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NOTICE

To prevent engine damage, do not operate the craft until the cause of overheating is corrected.



Engine Warning Indicator/"dEtO" Character/Red Warning Indicator Light

If engine knocking is detected, the warning indicator light goes on and the engine warning indicator blinks with buzzer sound to warn the operator. Also "dEtO" character under the speedometer blinks. The engine speed is automatically controlled to 3 000 rpm. Return to shore at low speed and have your authorized Kawasaki JET SKI watercraft dealer check your boat to determine the problem. To stop the buzzer, press any button for more than a second.

NOTICE

Engine "knocking" or "pinging" can lead to severe engine damage. If engine "knocking" or "pinging" occurs, use a different brand of gasoline of a higher octane rating. Gasoline quality is important. Fuels of low quality or not meeting standard industry specifications may result in unsatisfactory performance. Operating problems that result from the use of poor quality or nonrecommended fuel may not be covered under your warranty.



Audio System (JT1500M)

The Audio System includes the following features:
 Auxiliary input (AUX) for an audio apparatus
 USB MP3/WMA Player (USB) for a USB flash drive

NOTICE

Failure to read the Operating Precautions before operating the audio system may lead to a system malfunction and/or damage to the unit. Carefully read the Operating Precautions section before operating the audio system. Learn and observe all rules.

Operating Precautions

There are a number of important precautions that must be heeded when operating the audio system. Learn and observe all of the following rules. Do not operate the audio system at volumes so loud that it disturbs other people.

NOTE

- *Three minutes after the engine stops, the display disappears and the ignition and audio system switches are turned off automatically. To turn on the audio system again, push the ignition key forward.*

WARNING

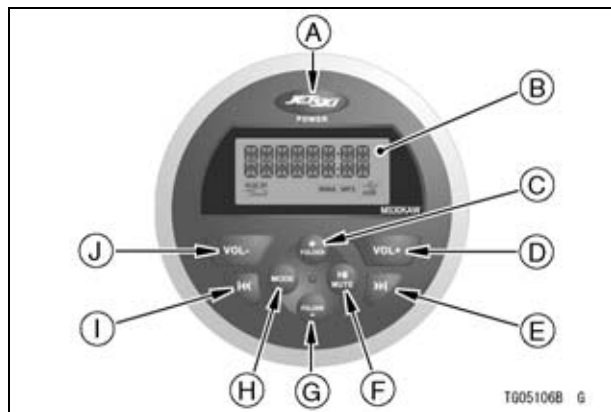
- **Removing your hand(s) from the handlebars while riding could result in an accident resulting in serious injury or death. Do not remove your hand(s) from the handlebars to adjust the audio system controls. Make any adjustments before riding or stop to make adjustments.**
- **Do not operate the audio system at volumes so loud that they interfere with your ability to hear sirens, horns, or other warning signals.**

NOTICE

- **Avoid spraying water with great force to the audio components (audio switch panel and speakers) to avoid damages to them.**
- **To prevent damage, do not clean the audio switch panel with organic solutions such as alcohol, gasoline, thinner or benzine. Use a soft cloth which has been soaked in a solution of neutral detergent to clean the audio switch panel, then dry it with a soft cloth.**

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Part Name



- A. JET SKi (POWER) Button
- B. LCD (Liquid Crystal Display)
- C. FOLDER + Button
- D. VOL + Button
- E. **»»** Button
- F. MUTE **»||** Button
- G. FOLDER – Button
- H. MODE Button
- I. **««** Button
- J. VOL – Button

JET SKi (POWER) Button

This button is power switch for audio unit.

FOLDER + and FOLDER – Buttons

Push these buttons to change the folders in the USB mode.

VOL + and VOL – Buttons

Push these buttons to change the volume.

Push these buttons to adjust the level of the Buss, Treble and Balance.

«« and »» Buttons

Push these buttons to change the music files in the USB mode.

Push and hold these buttons to fast-rewind or fast-forward in the USB mode.

*MUTE **»||** Button*

AUX Mode: Mute

USB Mode: Pause

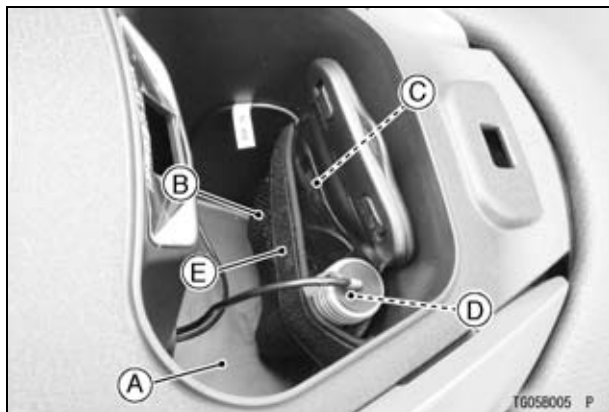
MODE Button

Push this button to change the following items.

AUX Mode and USB Mode

Buss, Treble and Balance in the Audio Adjustment

AUX connector (3.5 mm plug) and USB connector are located in the center storage case.



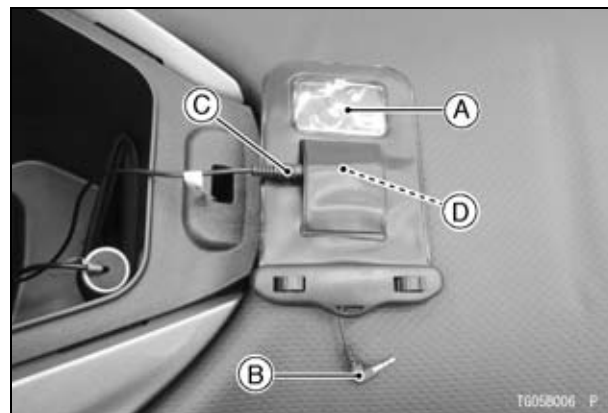
- A. Center Storage Case
- B. Net Pocket
- C. AUX Connector (3.5 mm plug)
- D. USB Connector (in USB Connector Case)
- E. Band

Prepare the Audio System

To connect the audio apparatus

NOTE

- *The connection with audio apparatus can communicate only audio signal.*
- Open the bag and connect the 3.5 mm plug to the audio apparatus.
- Close the bag and connect the AUX connector (3.5 mm plug) to the 3.5 mm jack.



- A. Bag
- B. 3.5 mm Plug
- C. AUX Connector (3.5 mm Plug)
- D. 3.5 mm Jack

- Install the bag in the net pocket.

To connect the USB flash drive

NOTE

- *Use a USB flash drive of up to 4 GB.*
- *Do not support portable hard drive or some USB drive.*
- *Audio system can be used WMA or MP3 files.*
- Remove the USB connector case.
- Connect the USB flash drive to the USB connector.
- Install the USB connector case.

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- A. USB Connector Case
- B. USB Connector
- C. USB Flash Drive

- Install the USB connector case in the net pocket.

Getting Started

NOTE

- *The audio system power on or off are maintained even if the ignition switch off.*

AUX (AUX IN) Mode

- Connect the audio apparatus.
- Insert the ignition key in the ignition switch to turn it on and push the “JET SKI” (POWER) button.

- Push the “MODE” button to change to “AUX” mode.



A. “AUX” Mode

NOTE

- *The “AUX” mode is only audio signal.*
- “AUX” mode can be used the following button.
 - “JET SKi” (POWER) Button
 - “VOL +” and “VOL –” Buttons
 - “MODE” Button
 - “MUTE >||” Button

“MUTE ►||” Button

- Push the “MUTE ►||” button to mute the audio system.



- Push the “MUTE ►||” button to restore the previous volume level.

USB Mode

The display will show music play time and information from your USB flash drive, if there is music information in the music file.

You can select the folder and song.

NOTE

- Use a USB flash drive of up to 4 GB.
- “USB” mode can be used WMA or MP3 files.

○ Do not support portable hard drive or some USB drive.

- Push the “MODE” button to change to “USB” mode.



A. “USB” Mode

- “USB” mode can be used the following button.
 “JET SKI” (POWER) Button
 “VOL +” and “VOL –” Buttons
 “MODE” Button
 “MUTE ►||” Button
 “FOLDER +” and “FOLDER –” Buttons
 “◀◀” and “▶▶” Buttons

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“MUTE ►||” Button

- Push the “MUTE ►||” button to “PAUSE” or start the music.



“FOLDER +” and “FOLDER –” Buttons

- Push the “FOLDER +” or “FOLDER –” button to select the folders before and after.

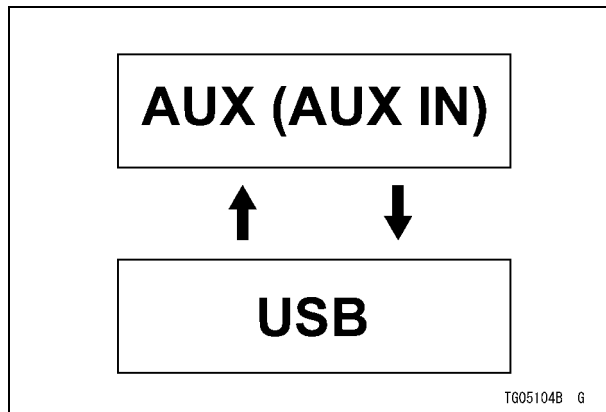
“◀◀” and “▶▶” Buttons

- Push the “◀◀” or “▶▶” button to changed the music files.
- Push and hold the “◀◀” or “▶▶” button can fast-rewind or fast-forward the music.

Source Change

NOTE

- You can not change the mode to “USB” when USB flash drive is not installed.
- Push and release the “MODE” button to toggle between AUX and USB modes.



Volume Level Adjustment

- Push the “VOL +” or “VOL –” buttons to adjust volume from 0 to 39. You can push and hold the button to quickly adjust system volume level up or down.



A. Volume Level

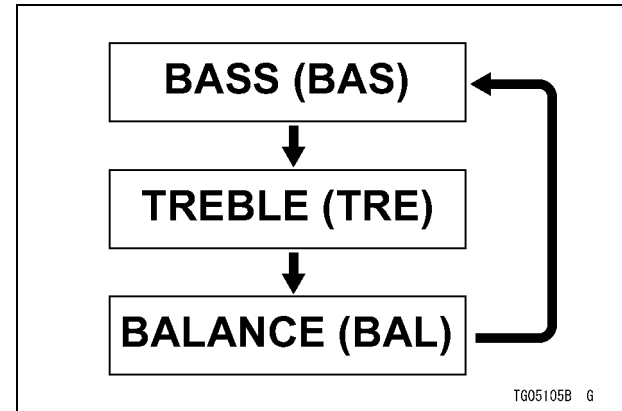
Audio Adjustments

Bass, Treble and Balance can be adjusted to match your listening preferences.

- Push and hold the “MODE” button until the display appears “BAS”.
- When pushing the “MODE” button within 5 seconds, the display changes as follows.

NOTE

- The display will return to normal after 5 seconds with no additional switch pushes or turns required.



Bass (BAS)

- Use the “MODE” button to find the “Bass” mode and push the “VOL +” or “VOL –” button to change the setting from –7 to +7.

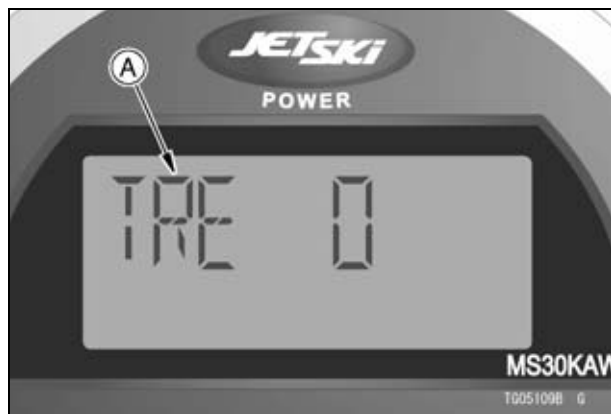
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A. Bass Mode

Treble (TRE)

- Use the "MODE" button to find the "Treble" mode and push the "VOL +" or "VOL –" button to change the setting from –7 to +7.

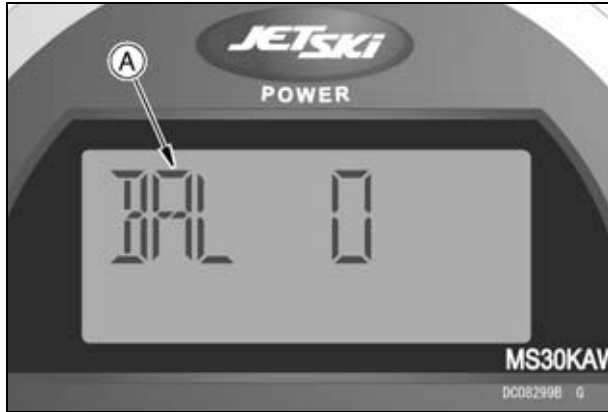


A. Treble Mode

Balance (BAL)

The "Balance" mode indicates the volume balance of the left and right speakers.

- Use the "MODE" button to find the "Balance" mode and push the "VOL +" or "VOL –" button to shift the setting from R7 to L7.



A. Balance Mode

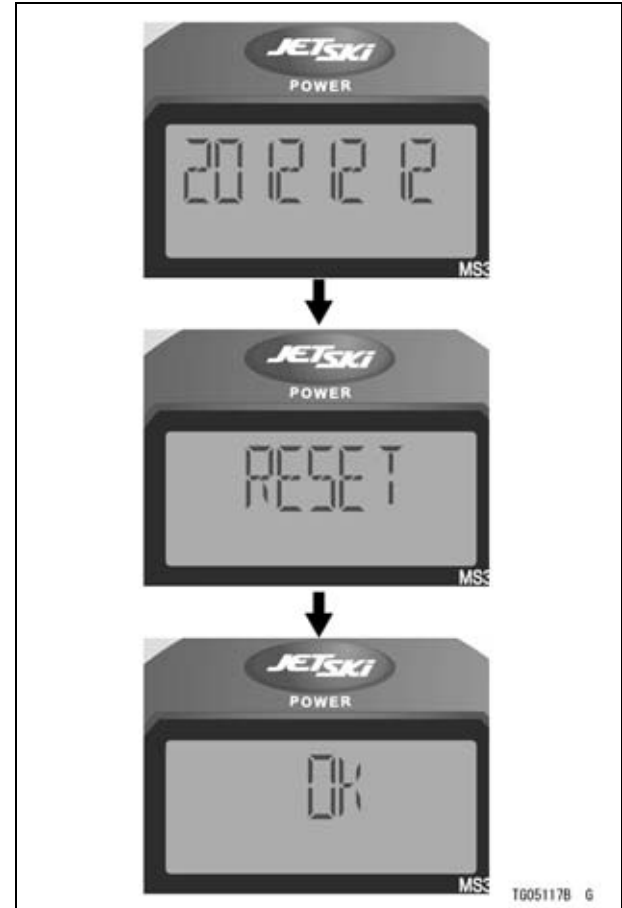
Restore Factory Settings

Perform the following steps to reset the audio system to factory default settings:

- Press and hold the “JET SKI” (POWER) button to display the software version.
- Push the “VOL +” button to display “RESET”.
- Push the “JET SKI” (POWER) button to display “OK” and it will be factory default restore.
- The display will return to normal.

Factory Default Settings

Bass Mode: 0
 Treble Mode: 0
 Balance Mode: 0



Fuel

NOTICE

This watercraft has not been tested and certified for use with racing fuels or fuel additives. Their use may damage the engine and fuel system. Do not use race gas or fuel additives.

Fuel Requirements

Fuel Type

Use clean, fresh unleaded gasoline with a minimum Antiknock Index shown in the tabel. The Antiknock Index is posted on service station pumps in the U.S.A. The octane rating of a gasoline is a measure of its resistance to detonation or “knocking”. The Antiknock Index is an average of the Research Octane Number (RON) and the Motor Octane Number (MON) as shown in the table below.

Octane Rating Method		Minimum Rating
Antiknock Index	$\frac{(\text{RON} + \text{MON})}{2}$	90

NOTICE

Low-octane gasoline can cause severe engine damage. To prevent engine damage, only use gasoline with minimum 90 octane rating.

NOTICE

Engine “knocking” or “pinging” can lead to severe engine damage. If engine “knocking” or “pinging” occurs, use a different brand of gasoline of a higher octane rating. Gasoline quality is important. Fuels of low quality or not meeting standard industry specifications may result in unsatisfactory performance. Operating problems that result from the use of poor quality or nonrecommended fuel may not be covered under your warranty.

Fuels Containing Oxygenates

Gasoline frequently contains oxygenates (alcohols and ethers) especially in areas of the U.S. and Canada which are required to sell such reformulated fuels as part of a strategy to reduce exhaust emissions.

The types and volume of fuel oxygenates approved for use in unleaded gasoline by the U.S. Environmental Protection Agency include a broad range of alcohols and ethers, but only two components have seen any significant level of commercial use.

Gasoline/Alcohol Blends - Gasoline containing up to 10% ethanol (alcohol produced from agricultural products such as corn), also known as "gasohol" is approved for use.

NOTICE

Using blends of unleaded gasoline and methanol (wood alcohol) can damage the fuel system and result in poor engine performance. Avoid using methanol whenever possible, and never use "gasohol" containing more than 5% methanol.

Gasoline/Ether Blends - The most common ether is methyl tertiary butyl ether (MTBE). You may use gasoline containing up to 15% MTBE.

NOTE

- *Other oxygenates approved for use in unleaded gasoline include TAME (up to 16.7%) and ETBE (up to 17.2%). Fuel containing these oxygenates can also be used in your Kawasaki.*

NOTICE

Using gasoline with an insufficient octane rating may damage the engine. To avoid engine damage, never use gasoline with an octane rating lower than the minimum specified by Kawasaki. Never use "gasohol" with more than 10% ethanol, or more than 5% methanol.

Gasoline containing methanol must also be blended with cosolvents and corrosion inhibitors.

Certain ingredients of gasoline may cause paint fading or damage. Be extra careful not to spill gasoline or gasoline oxygenate blends during refueling.

When not operating your Kawasaki for 30 to 60 days, mix a fuel stabilizer (such as STA-BIL) with the gasoline in the fuel tank. Fuel stabilizer additives inhibit oxidation of the fuel which minimizes gummy deposits.

Never store this product with "gasohol" in the fuel system. Before storage it is recommended that you drain all fuel from the fuel tank and fuel system. See the Storage section in this manual.

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Filling the Tank

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. To avoid a possible fire or explosion, pull the lanyard key off the stop button. 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.

Avoid filling the tank in the rain or where heavy dust is blowing so that the fuel does not get contaminated.



A. Fuel Filler Cap

The fuel tank is located at the front end of the engine compartment and the fuel filler cap is under the front storage lid. Open the lid and turn the cap counterclockwise and remove it.

Observe the fuel level gauge on the meter for the segments to increase while filling.

Fill the tank with the recommended octane rating gasoline. The use of a small diameter pour spout (or funnel) will make filling easier. Pour slowly to avoid “spit back” and allow air to escape from the tank.

After refueling, make sure the filler cap is closed securely. It is the torque-limiting type to prevent over-tightening.

⚠ WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. To avoid a possible fire or explosion never fill the tank completely to the top. As the fuel expands in a warm tank, it may overflow from the vent tube. After refueling, make sure the filler cap is closed securely.

NOTICE

Gasoline spilled on the watercraft may cause paint fading or damage. To prevent damaging the finish, be extra careful not to spill fuel during refueling.

After transporting or refueling and before starting the engine, open the storage compartment lid, remove the seats (see the Seat Latches section) and take out the storage pocket for several minutes to ventilate the engine compartment.

 WARNING

A concentration of gasoline fumes in the engine compartment can cause a fire or explosion. To prevent a fire or explosion, remove the seat to vent the engine compartment.

Ignition Switch

The ignition switch is located in the center storage case.

This watercraft is equipped with two kinds of ignition keys, one of that controls the watercraft speed for the unskilled (Smart Learning Operation Mode, (SLO)); and the other for normal operation (Full Power Operation Mode (FPO)).

These keys are equipped with an immobilizer system to protect your watercraft from theft.

SLO/FPO Modes

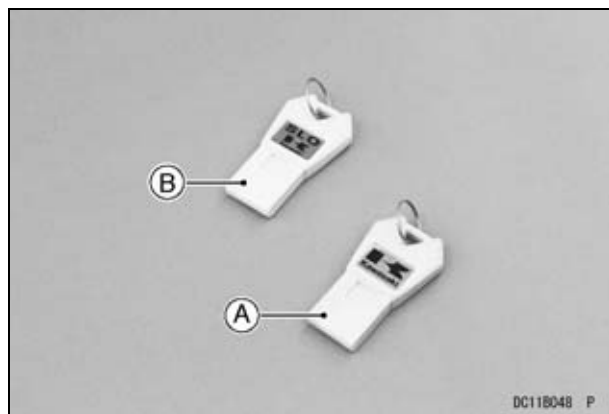
Depending on his/her skill, the rider can choose either Smart Learning Operation Mode (SLO), which reduces the maximum watercraft speed, or ordinary Full Power Operation Mode (FPO).

Keys are color-coded.

FPO is green.

SLO is yellow and marked SLO.

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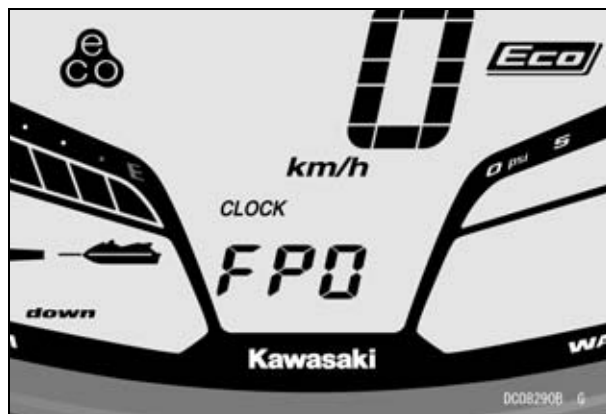


- A. FPO Key (Full Power Operation Mode: green-colored)
- B. SLO Key (Smart Learning Operation Mode: yellow-colored and marked SLO)

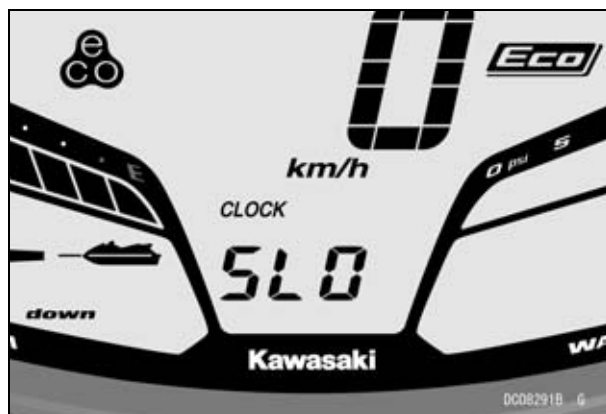
NOTE

○ The ignition key is buoyant but if attached to an accessory or accessories that are heavier than water, it could sink. Do not attach an accessory or accessories to the ignition key that will not float in water.

When FPO key is inserted, the multifunction meter will show the following display.



And when SLO key is inserted:



Smart Learning Operation mode (SLO)

This watercraft is equipped with SLO, which reduces the maximum watercraft speed by approximately 30 percent.

SLO mode is displayed on the meter as SLO, whereas the non-restricted ordinary mode is displayed as FPO.

In SLO mode, all the functions of the multifunction meter and KSS function remain the same as the ordinary FPO mode.

To switch from FPO mode to SLO and vice versa, stop the engine and replace the ignition key from FPO to SLO and vice versa. See the Multifunction Meter section in this chapter.

You should become familiar with the SLO mode so that you can assist others in understanding how it works.

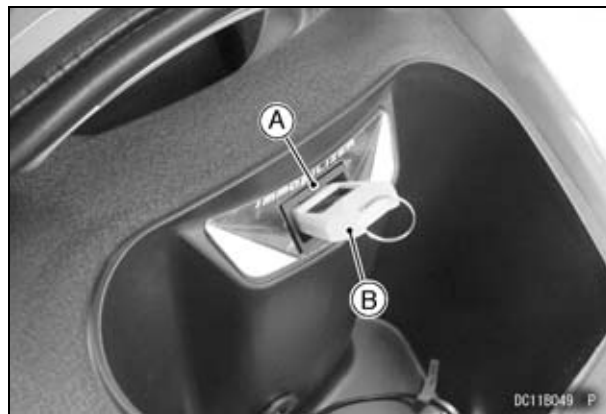
NOTE

- When shifted to the SLO mode, the initial display, as shown when the ignition switch is turned on, is shown and a buzzer sounds.
- Then, "SLO" blinks every three seconds.
- When shifting to the normal operation mode (FPO), the same initial display is shown and a buzzer sounds followed by "FPO" for two seconds. However, "FPO" is shown only once and is not displayed thereafter.
- Under the SLO mode, all the meter displays and other functions work in the same manner as the normal operation (Full Power Operation, FPO) mode.

How to use the Immobilizer-function keys

Insert either the SLO or FPO key into the key slot in the center storage case and press the key further in. The ECU (electronic control unit) verifies the code of the immobilizer key and if the ECU recognizes the key, the warning indicator light goes on and a buzzer sounds and the initial display will be shown on the multifunction meter.

You can now start the engine.



A. Key Slot
B. Immobilizer Key

NOTE

- When shifting the mode from SLO to FPO and vice versa, be sure to stop the engine. If the engine is on, the mode cannot be shifted.

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- *Three minutes after the engine stops, the meter display disappears and the ignition switch is turned off. When turning on the ignition switch again, press the ignition key further in.*



A. Push

Be sure the key remains in the slot while riding the watercraft. If you lose the keys at sea you will be unable to start the engine again and may end up stranded.

Observe the following precautions to protect your immobilizer keys.

NOTICE

The keys can be damaged by excessive heat, magnetic fields, heavy objects, shocks and if the plastic cover is damaged. To prevent key damage, do not expose the keys to excessively high temperatures, place them close to magnets or under heavy items, and avoid damaging the plastic covers.

If an unregistered key is tried, an alarm sounds and a warning indicator light blinks on the multifunction meter. An alarm also sounds if the immobilizer system malfunctions. See Multifunction Meter section in this chapter.

NOTE

- *Since the immobilizer system uses an electric wave for communication, keep away from other sources of electricity to prevent key identification errors.*

Whenever the watercraft is not in use, be sure to remove the key from the key slot to prevent unauthorized use.

Lost Keys

If you lose a key, contact a Kawasaki dealer to obtain a new one. Take the watercraft to the dealer to have the new key registered to the ECU. You need at least one registered key to have a new key registered to the ECU. If you lose both registered keys, you have to replace the ECU, so always keep a spare key in a safe place.

NOTE

- *There is a limit to the number of keys that can be registered to the ECU.*

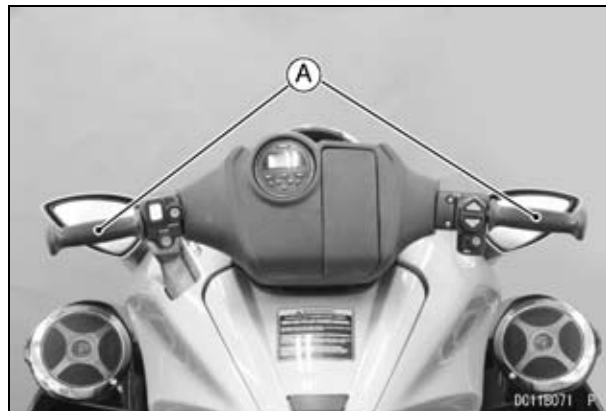
Declaration of conformity**FCC Warning**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions:

- (1) This device may not causes harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Controls

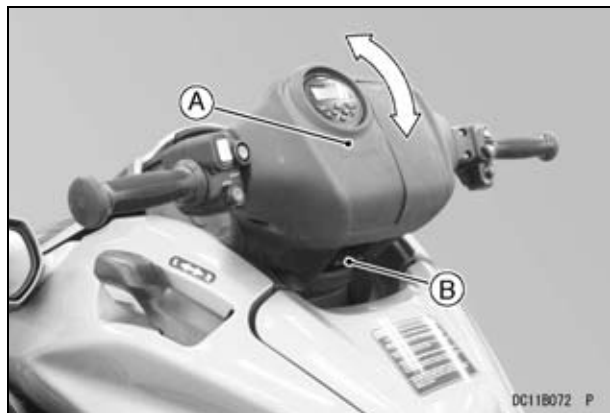
Handlebars**A. Handlebars**

The handlebars allow the rider to steer the watercraft. It will turn **ONLY WHEN THE ENGINE IS RUNNING AND ONLY WHEN THE THROTTLE IS APPLIED**. The handlebars are connected by a control cable to the jet pump steering nozzle at the rear of the boat.

Tilt Lever (JT1500L/M/P)

The handlebar tilt can be adjusted to suit you. Push down the tilt lever and move the handlebars up or down. There are five different angles to choose from.

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- A. Handlebars
- B. Tilt Lever

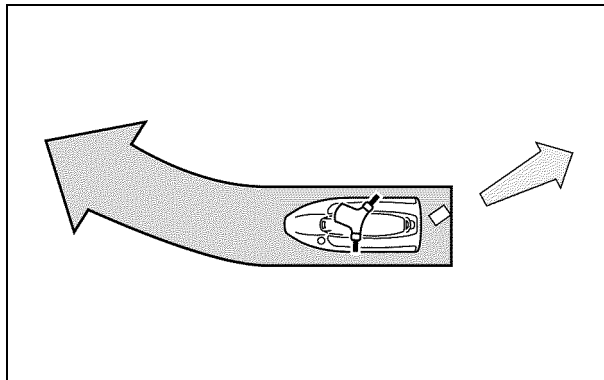
⚠ WARNING

Adjusting the handlebar position while riding may cause the handlebars to suddenly change position, causing loss of control and an accident resulting in injury or death. To help prevent accidents, never touch or attempt to adjust the handlebar position while operating the watercraft; do so only when stopped.

Kawasaki Smart Steering™ (KSS™)

Your JET SKI watercraft can turn under certain conditions when the throttle is released. There must be thrust at the jet nozzle to initiate and complete turns. This is a supplemental steering system which assists operators in learning to negotiate turns and maneuver.

Your JET SKI watercraft continuously detects the operator's steering input as well as boat speed. When the throttle is released while boat speed is high and a turn is initiated, your JET SKI watercraft automatically increases engine speed to provide additional thrust. The system does not work when the engine is off or boat speed is low.



Important Information

When you make an emergency maneuver YOU MUST HAVE THRUST TO TURN, so keep the throttle on or apply throttle as needed to maintain thrust.

You can turn quicker by applying the throttle as needed and not relying upon KSS. The system functions when all of these conditions are present:

- engine speed averages more than 3 000 rpm for a specified time
- the throttle is released completely
- and the handlebars are held fully to the left or right.

Stop Button

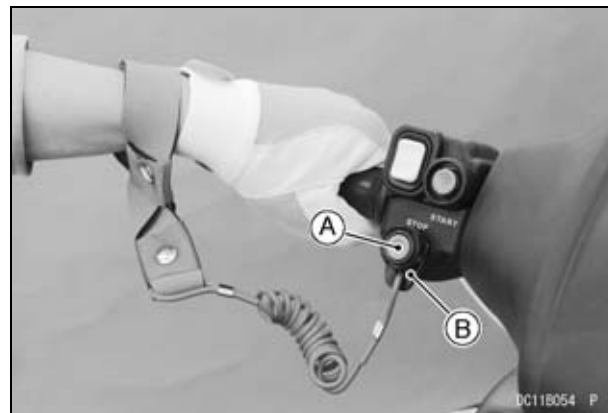
The stop button is in the case on the left hand side of the handlebars. It is red and marked “STOP.” Pushing the stop button turns off the engine.

The engine is also stopped by pulling the engine shut-off lanyard key off the stop button.

After riding, remove the engine shut-off lanyard key from the watercraft to avoid unauthorized use by children or others.

Engine Shut-off Lanyard Key

- Keep the engine shut-off lanyard key attached to the operator’s left wrist.
- Insert the engine shut-off lanyard key to the stop button before starting the engine.
- The engine stops automatically when the lanyard is removed.



A. Stop Button

B. Lanyard Key

- After riding, remove the engine shut-off lanyard key from PWC to avoid unauthorized use by children or others.

NOTE

- *For the engine to start, the ignition key must be inserted and the engine shut-off lanyard key must be pushed under the stop button.*

Start Button

The start button is in the case on the left hand side of the handlebars. It is green and is marked “START.” Pushing the start button with the engine shut-off lanyard key pushed under the stop button starts the engine. Release it when the engine starts.

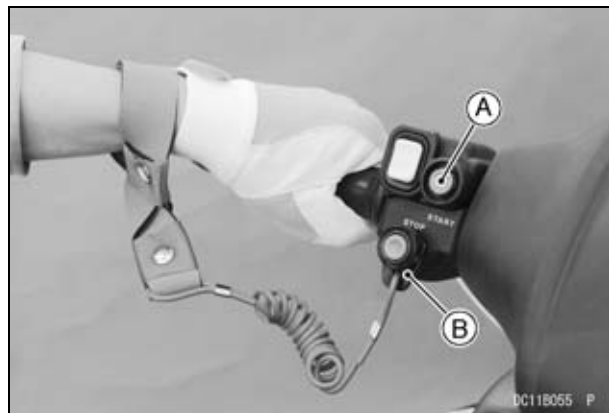
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NOTICE

Do not push the “START” button while the engine is running or while the starter is still spinning as this causes premature starter wear and may cause it to jam.

NOTE

- *For the engine to start, the ignition key must be inserted and the engine shut-off lanyard key must be pushed under the stop button.*
- *Refer to the Starting the Engine section in the Operating Instructions chapter.*



- A. Start Button
- B. Lanyard Key

Throttle Lever

The throttle lever is located on the right handle-bar grip. Squeezing the lever towards the handle-bar grip increases engine speed. When released, spring pressure returns the lever to the idle position. Always check that the throttle lever returns normally before starting the engine. In addition, there must be adequate throttle cable play. Refer to the MAINTENANCE AND ADJUSTMENTS chapter for the throttle cable adjustment procedure.

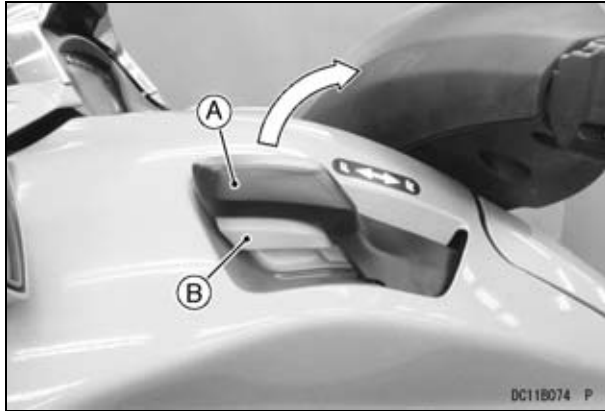


A. Throttle Lever

Shift Lever

The shift lever is located on the left side under the handlebars and has two positions: "F" (Forward) and "R" (Reverse).

To shift into Reverse from Forward, squeeze the trigger on the lever while pulling the lever all the way up.



A. Shift Lever

B. Trigger

To shift into Forward, squeeze the trigger while pushing the lever all the way down.

Be sure to allow the watercraft to slow down before shifting from Forward to Reverse.

Refer to the Operating the JET SKI Watercraft in Reverse section in the OPERATING INSTRUCTIONS chapter.

⚠ WARNING

Suddenly shifting into reverse at high speed can cause the bow to suddenly dive into the water, throwing the occupants forward which can cause severe injury. Do not shift into reverse while going forward and do not use reverse as a brake. Slow the watercraft to a stop and alert any passengers before shifting to reverse.

Fuel Economy Assistance Mode

The fuel economy assistance mode helps maximize fuel efficiency. Activating the fuel economy assistance mode changes to a leaner fuel injection map that prioritizes fuel economy over rideability.

Fuel Economy Assistance Mode Activation

- Push the fuel economy assistance mode button on the left handlebar switch housing to activate the fuel economy assistance mode. When activated, the fuel economy assistance indicator appears on the multifunction meter.

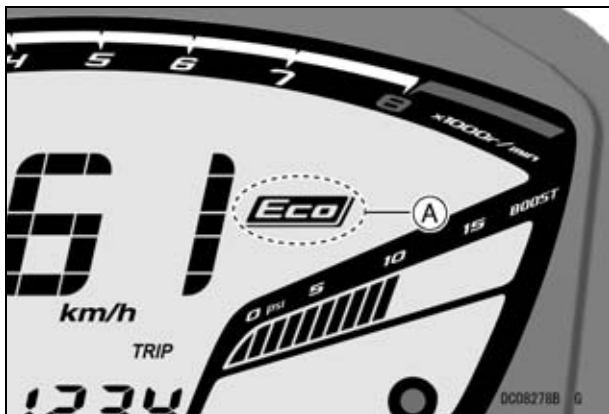
NOTE

- *In the SLO mode, the fuel economy assistance mode cannot be activated.*

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A. Fuel Economy Assistance Mode Button



A. Fuel Economy Assistance Indicator

Fuel Economy Assistance Mode Deactivation

- Push the fuel economy assistance mode button for more than 2 seconds to deactivate the fuel economy assistance mode.

NOTE

- *Rider input affects vehicle fuel efficiency. Fuel consumption may not change due to sudden start or quick acceleration.*
- *Activating the fuel economy assistance mode decreases horsepower.*
- *If “knocking” or “pinging” occurs, use a different brand of gasoline or higher octane rating.*

NOTICE

Low-octane gasoline can cause severe engine damage. To prevent engine damage, only use gasoline with minimum 90 octane rating.

One-touch 5 mph Mode

The one-touch 5 mph mode maintains the engine speed at 8 km/h (5 mph) for operating the watercraft at low speed.

One-touch 5 mph Mode Activation

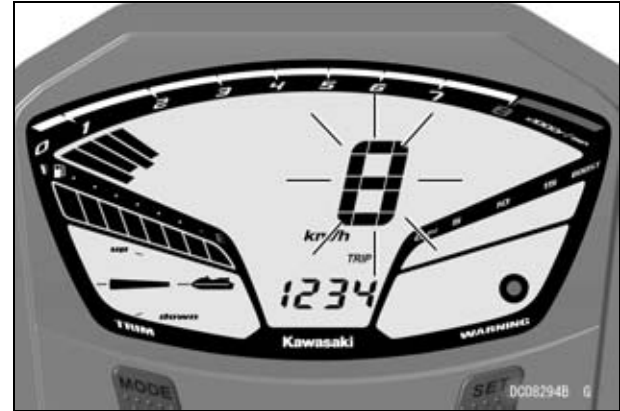
- Release the throttle lever, and leave the engine running at idle speed.
- Push the set button on the right switch housing to activate the one-touch 5 mph mode. When the one-touch 5 mph mode is activated, “8 km/h” (“5 mph”) in the speedometer starts blinking in the speedometer.

NOTE

- When the one-touch 5 mph mode is activated, a buzzer sounds twice.



A. Set Button



One-touch 5 mph Mode Deactivation

- To deactivate the one-touch 5 mph mode squeeze the throttle lever.

NOTE

- When the one-touch 5 mph mode is deactivated, a buzzer sounds twice.

Electronic Cruise Control Mode

The electronic cruise control mode automatically maintains a desired watercraft speed. It is a convenient feature for long-distance cruising.

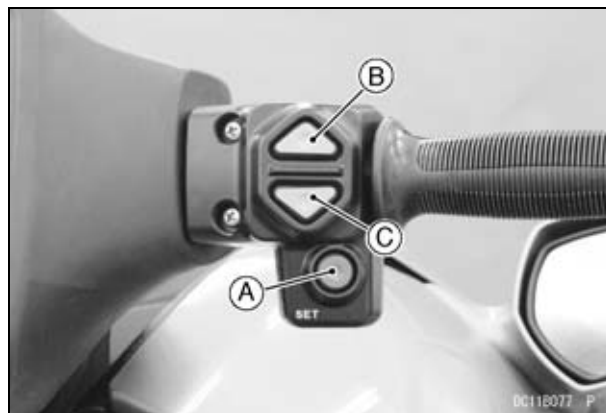
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Electronic Cruise Control Mode Activation

- Operate the throttle lever until the desired engine speed is reached.
- Push the set button on the right switch housing to activate the electronic cruise control mode.
- Ensure that the mode has changed: a buzzer sounds and meter message displays. Squeeze the throttle lever slowly.
- You must hold the throttle lever at or beyond the point at which the cruise control was set to maintain the cruise control mode. For maximum comfort, hold the throttle lever against the grip.

NOTE

- When the electronic cruise control mode is activated, the speedometer speed blinks and the normal display (3 seconds) and "CrS" (1 second) flash alternately below the speed indication.
- When the electronic cruise control mode is activated, the buzzer sounds three times.



- A. Set Button
- B. Up Button
- C. Down Button



Electronic Cruise Control Mode Deactivation

- Releasing the throttle lever will deactivate the electronic cruise control mode.

NOTE

- When the electronic cruise control mode is deactivated, the buzzer sounds three times.

Watercraft Speed Adjustment

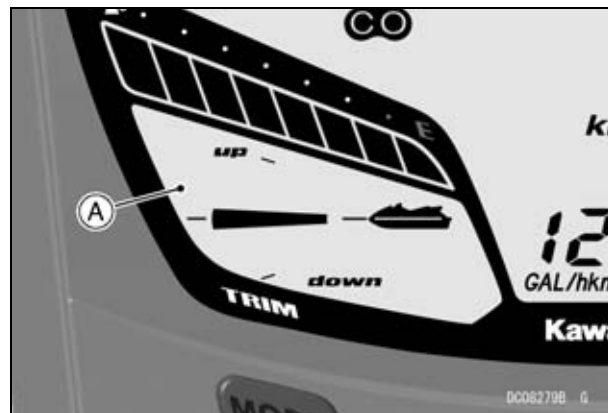
When the electronic cruise control mode is activated, the engine speed can be adjusted by pushing either the up button or down button. The engine speed is changed by 200 rpm and watercraft speed is changed accordingly.

NOTE

- The engine speed can be adjusted from 1 750 rpm to 7 000 rpm.

Electric Trim-control

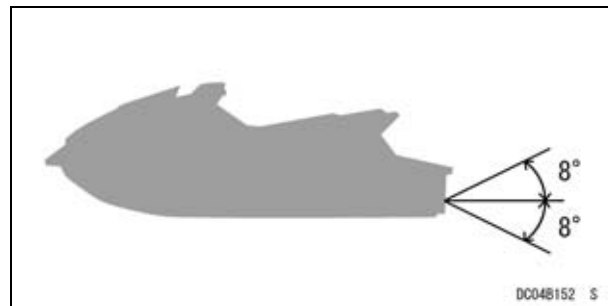
This system allows the angle of the jet nozzle to be controlled electrically, making it easier for riders to adjust the attitude of the hull to suit water surface conditions and riding style. The bow position is displayed in the electric trim-control indicator in the multifunction meter.



A. Electric Trim-control Indicator

NOTE

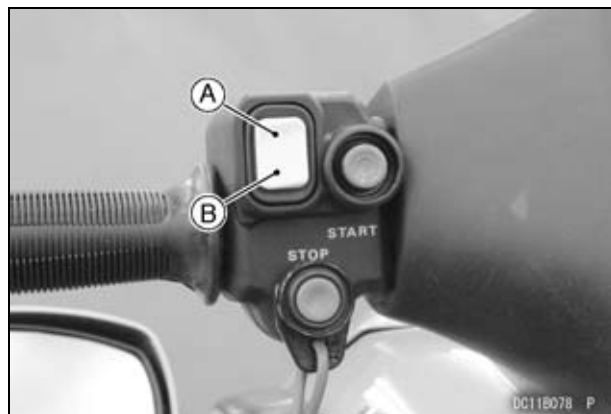
- The step-free adjustment range is $\pm 8^\circ$ from STD.



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Trim angle adjustment

The electric trim-control button on the left handle switch housing is used to adjust the trim angle. To raise the bow, push the upper side of the button. To lower the bow, push the lower side of the button.



A. Electric Trim-control Button (Upper Side)
B. Electric Trim-control Button (Lower Side)

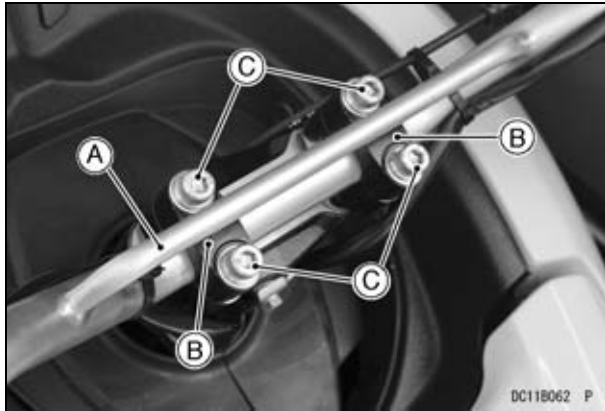
NOTE

- *Holding down the button changes the trim angle continuously.*
- *To adjust the trim angle back to the standard position, press and hold the Trim-control button in the appropriate direction and the jet nozzle angle returns to the standard position (horizontal). To adjust the trim angle past the standard position, release the button and push it again until the desired position is reached.*
- *In rough water, angling the jet pump upwards raises the bow for rough water handling. When conditions are smooth, angling the jet pump downwards lowers the bow for turning performance.*

Handlebars (JT1500N)

Handlebar Removal

- Remove the handlebar pad.
- Remove the handlebar clamp bolts, washers, spring washers, handlebar clamps and the handlebars.



- A. Handlebars**
- B. Handlebar Clamps**
- C. Handlebar Clamp Bolts, Washers and Spring Washers**

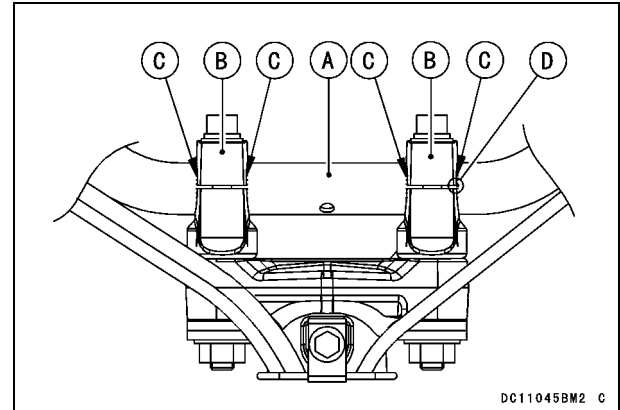
- Check the handlebars for bent or crack.

Handlebar Installation

- Position the handlebars and use the knurling marks to check its alignment in the clamps. There

should be equal marks showing on each side of the clamps.

- Align the punch mark on the handlebars with a gap at rear of the handlebar clamp lower surface.



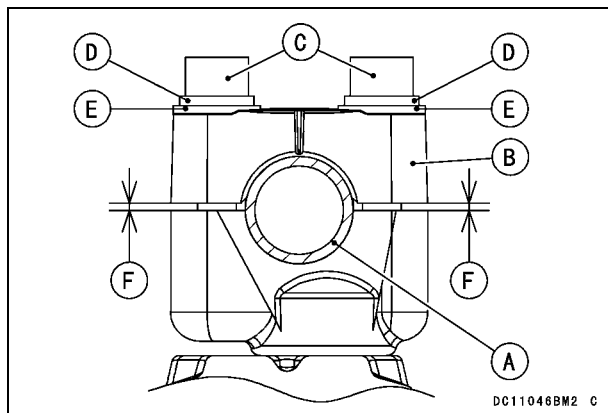
- A. Handlebars**
- B. Handlebar Clamps**
- C. Knurling Marks**
- D. Punch Mark**

- Apply non-permanent locking agent to the handlebar clamp bolts.
- Tighten the front and rear handlebar clamp bolts equally. If the handlebar clamps are correctly installed, there will be even gaps on the front and rear sides of the clamp after the bolts are torqued.

Tightening Torque

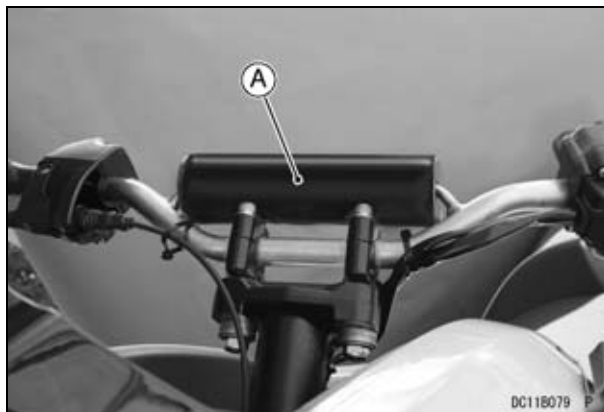
Handlebar Clamp Bolts:
15.7 N·m (1.60 kgf·m, 11.6 ft·lb)

78 GENERAL INFORMATION



- A. Handlebars
- B. Handlebar Clamp
- C. Handlebar Clamp Bolts
- D. Spring Washers
- E. Washers
- F. Gaps

- Install the handlebar pad.

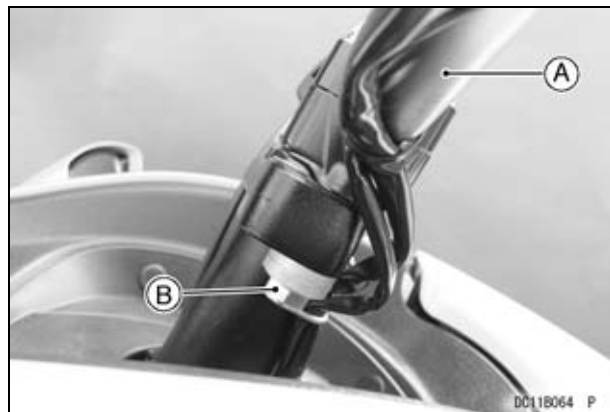


A. Handlebar Pad

Handlebar Position Adjustment

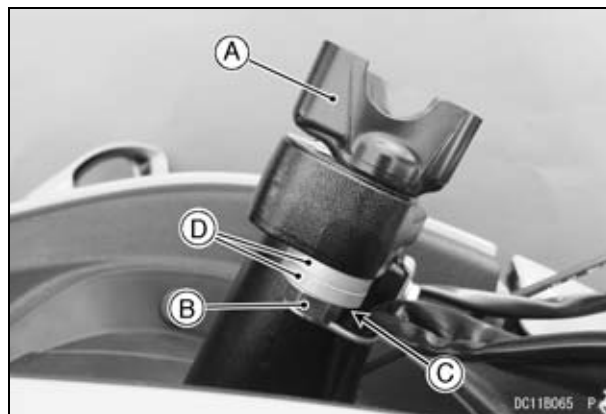
To suit various riding positions, the handlebar position can be changed by turning the handlebar holders around (180°).

- Loosen the handlebar holder nut on both sides.
- Remove the handlebars (see Handlebar Removal in this section).
- Check the handlebars for bent or crack.



A. Handlebars
B. Handlebar Nut

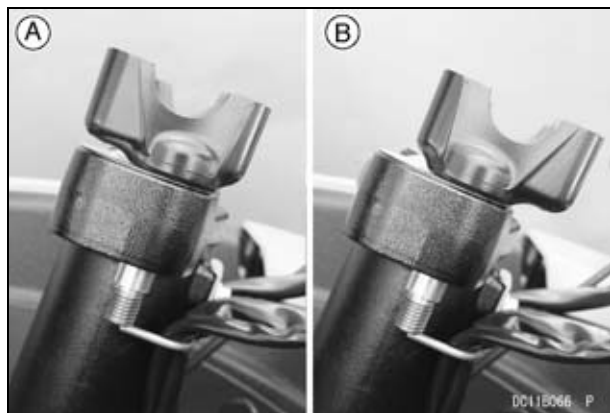
- Remove the handlebar holder nuts, washers, collars and handlebar holders on both sides.



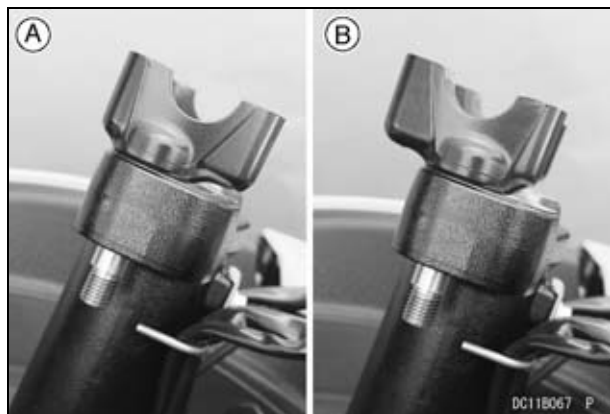
A. Handlebar Holder
B. Handlebar Holder Nut
C. Washer
D. Collars

- Select the handlebar position.

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A. Standard Setting
B. -10 mm (0.39 in.) Setting



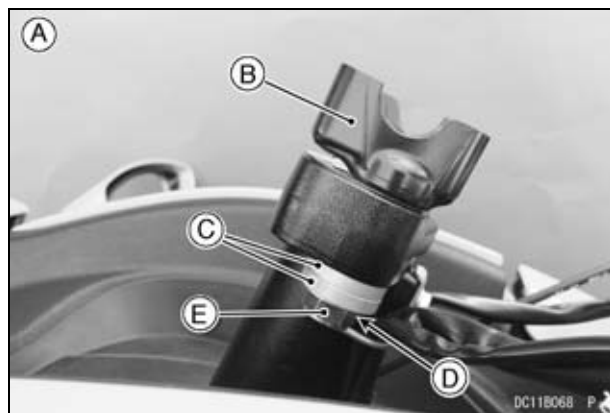
A. +5 mm (0.20 in.) Setting
B. +15 mm (0.59 in.) Setting

- Select the handlebar height (see Handlebar Height Adjustment in this section).

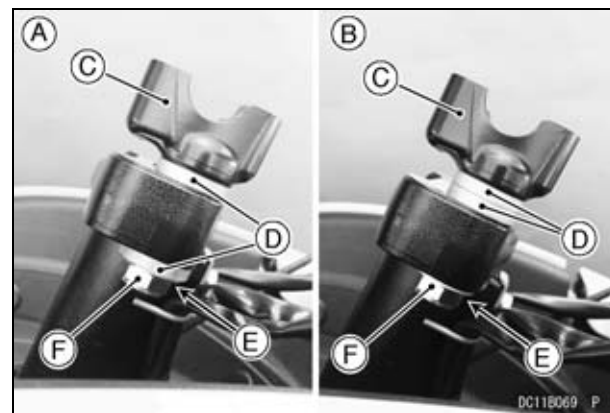
Handlebar Height Adjustment

The handlebar height can be adjusted in the three positions (5 mm (0.20 in.) or 10 mm (0.40 in.) higher than standard setting) by changing position of the collars. Be sure to put the left side collars to the same position as that of the right side collars.

- Select the handlebar position (see Handlebar Position Adjustment in this section).
- Select the handlebar height.
- Replace the handlebar holder nuts with new ones.
- Install the handlebar holders, collars, handlebar holder nuts and washers on both sides.
- Tighten the handlebar holder nuts temporally on both sides.



- A. Standard Setting
- B. Handlebar Holder
- C. Collars
- D. Washer
- E. Handlebar Holder Nut



- A. 5 mm (0.20 in.) Higher than Standard Setting
- B. 10 mm (0.40 in.) Higher than Standard Setting
- C. Handlebar Holder
- D. Collars
- E. Washer
- F. Handlebar Holder Nut

- Install the handlebars (see Handlebar Installation in this section).
- Tighten the handlebar holder nuts to the specified torque.

Tightening Torque

Handlebar Holder Nuts:
27 N·m (2.8 kgf·m, 20 ft·lb)

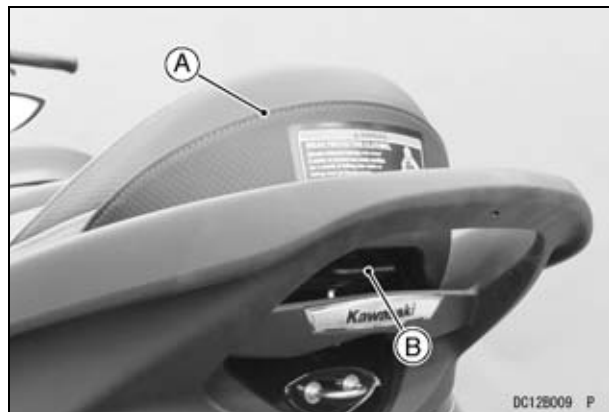
Seat Latches

There are two individual seats that can be unlocked using the latch under the rear of each seat. Remove the rear seat first.

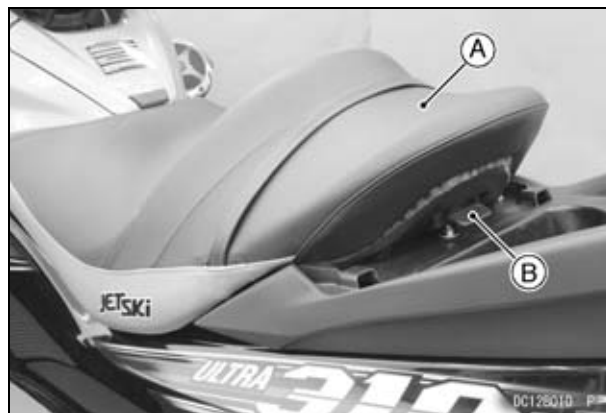
The procedure to open and close is the same for both seats.

To Open: Pull the latch handle and pull the seat up and to the rear.

To Close: Position the front of the seat in place, slide it all the way forward and then push down on the rear of the seat to lock it.



A. Rear Seat
B. Latch Handle



A. Front Seat
B. Latch Handle

- When transporting the watercraft, make sure the seats are secured to prevent them from becoming dislodged and damaged or lost.

NOTE

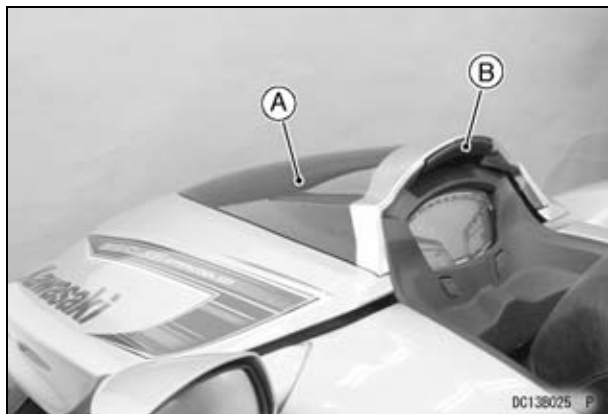
- *Check that the seat latch is locked securely before you board the watercraft.*

Storage Compartment

The box type storage case is located in the bow. Store this Owner's Manual there in a plastic bag.

To open the lid, pull the knob and raise the lid all the way up.

To close the lid, push on it near the knob until it latches.



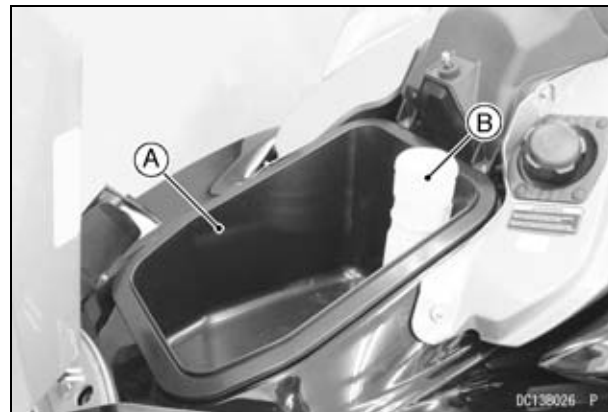
A. Front Storage Lid
B. Knob

WARNING

Storing fuel in the front storage compartment can cause a fire or explosion that can result in injury or death.

Do not store fuel or other flammable liquids in this unventilated compartment.

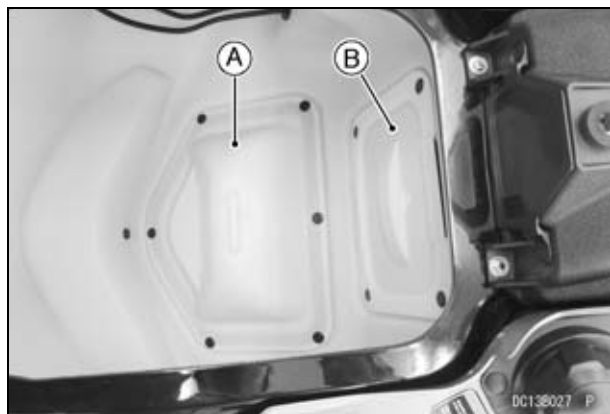
A container for a fire extinguisher is attached to the storage case. (A fire extinguisher is not standard equipment with this watercraft.)



A. Front Storage Case
B. Fire Extinguisher

Remove the storage case, and you will find another space in the bow where the battery and the fuse are located.

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- A. Battery (Fuse) Cover
- B. ECU Cover

NOTICE

Running the watercraft without the storage case will cause water to enter the storage compartment. To prevent flooding, the storage case should always be in position while riding.

NOTE

- Make sure the storage compartment lid is properly secured before riding the watercraft.

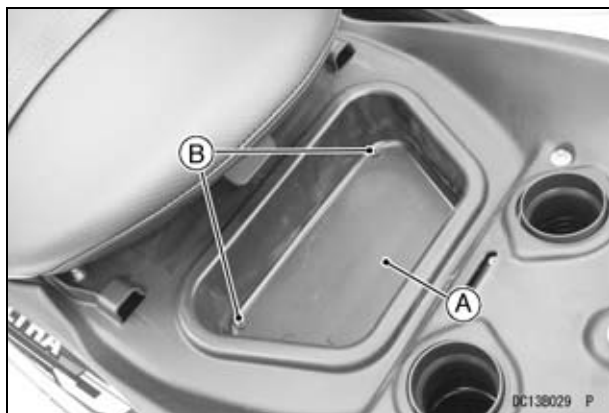
Center and Rear Storage Cases

There is a center storage case in front of the seat. The ignition switch is inside this case. To open the lid, pull the knob. To close the lid, push the knob until it latches.



- A. Center Storage Case
- B. Knob

The box type rear storage case is located under the rear seat. Only keep light items in these storage cases.



A. Rear Storage Case
B. Drain Plugs

Accessory

(For JT1500M model only)

A specified GPS device (not supplied) can be installed under the cover on the handlebar if necessary. A separate mounting bracket (not supplied) is required to install the GPS device.



A. Cover

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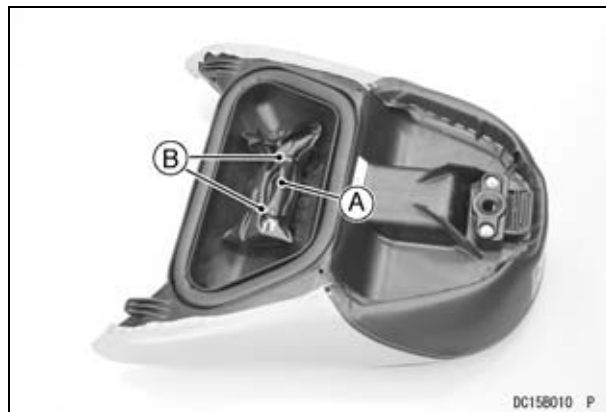


A. GPS device (not supplied)

Usable GPS devices:
GARMIN 72/76/78 series

Tool Kit

The tool kit container is stored at the back of the rear seat. Unhook the rubber straps to remove the tool kit.



A. Tool Kit
B. Rubber Straps

Bilge Systems

This watercraft has a jet vacuum drainage system at the rear end of the engine compartment. This system utilizes the water jet for propulsion to drain the bilge in the engine compartment. This system only works when the engine is running on water.

NOTICE

Check the bilge system is working at regular intervals according to the Periodic Maintenance Chart. Refer to the MAINTENANCE AND ADJUSTMENTS chapter. Clear debris from the pump intakes.

⚠ WARNING

Damage to the hull may cause a leak and the capacity of the bilge pumping system is not designed to drain the hull in such instances. To avoid sinking the watercraft, immediately return to shore if the hull is damaged in any way.

NOTE

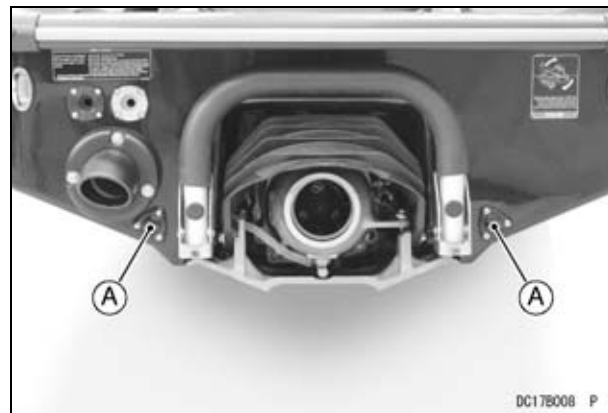
- To drain any water remaining in the bilge, remove the drain screws in the stern when the craft is out of the water.

Drain Screws

There are two drain screws in the stern to drain water accumulated in the engine compartment. Open them only when the craft is out of the water.

NOTICE

If the screws come loose the craft may flood or become swamped, with the possibility of sinking or severe engine damage. To prevent swamping, be sure the screws are securely tightened before launching.



A. Drain Screws

Handrail

The handrail behind the seat is for boarding from deep water. Also, when towing a water skier, wakeboarder, or tuber, the handrail should be held by the observer who faces rearward to watch the water skier, wakeboarder, or tuber. It is not designed for any other purpose.

See the Towing (a wakeboarder, water skier, tuber, etc.) section in this chapter.



WARNING

Do not lift the watercraft using the handrail. The watercraft could fall and result in severe injury.

NOTICE

To prevent damage to the handrail and/or hull, do not use the handrail behind the seat for towing or attaching tie-downs.

Reboarding Step

The watercraft is equipped with a folding type reboarding step at the stern. When reboarding from the rear of the craft, pull the step down. It automatically raises back to the original position when released. You can reboard more easily from the water by using this step and the handrail behind the rear end of the seat (see Basic Operating and Riding sections in the OPERATING INSTRUCTIONS chapter).

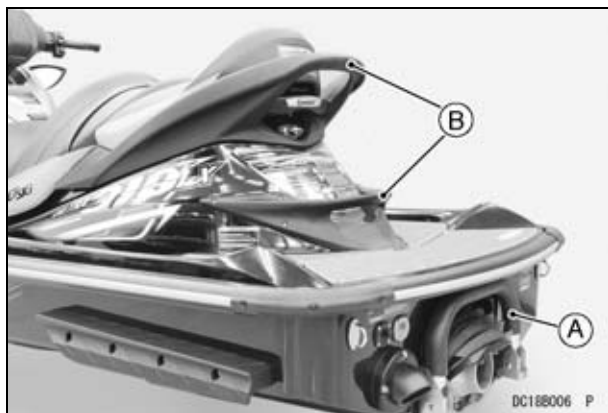
This step is designed only for reboarding from deep water, do not use it for pulling other craft.



WARNING

- **Do not use the reboarding step while the engine is running.**
- **Do not use the reboarding step to pull anyone or anything.**

Improper use can result in serious injury.



A. Reboarding Step
B. Handrails

Loading/Accessories/Modifications

⚠ WARNING

Incorrect loading, overloading, use of accessories and/or modification of your watercraft may affect its stability and handling and result in an unsafe riding condition. Before you ride the watercraft, make sure that it is not overloaded and that you have followed these instructions.

Maximum load

Maximum load: 225 kg (496 lb)

- Ensure the total weight of riders and luggage aboard the watercraft does not exceed the maximum load.
- Ensure the storage spaces are not overloaded.

Storage space	Load limit
Rear deck	23 kg (50 lb)
Accessory case	8 kg (17.6 lb)
Storage pocket (front)	1.3 kg (2.9 lb)
Storage pocket (rear)	1.3 kg (2.9lb)

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Important Information

Accessories: Kawasaki has no control over the design or application of accessories. In some cases, improper installation or use of accessories, or watercraft modification, will void the warranty.

Using non-genuine accessories or modifying your watercraft may threaten your own safety and the safety of others.

NOTE

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

Because a personal watercraft is sensitive to changes in weight distribution, you must take extreme care in carrying cargo, passengers and in the fitting of additional accessories. Use the following guidelines when carrying passengers and cargo.

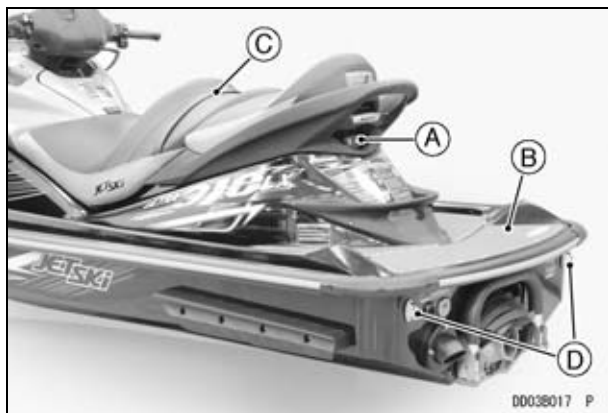
- Passengers can affect control of the watercraft by improper positioning or sudden movements. It is important that passengers sit still while the watercraft is in motion and not interfere with its operation. Do not carry animals on your watercraft.
- Instruct any passengers before riding to hold on to the person in front of them or hand strap, and keep both feet on the deck for balance.
- Use the open storage area behind the seat for carrying cargo. Be sure that any loose items are

packed in a buoyant container to prevent them from falling overboard and sinking. Loose articles or rope could fall overboard and become lodged in the intake grate or pump.

- Use a cargo net (not standard equipment with this watercraft) or other suitable tie-down straps to secure cargo on the open storage area. The hook under the rear end of the seat and the stern eyes are also available. Do not overload the storage area, maximum cargo weight must not exceed 23 kg (50 lb).
- Make sure that the cargo will not move around while you are riding. Recheck cargo security as often as possible and adjust as necessary.
- Do not carry large or bulky items that affect visibility or your ability to control the watercraft. Do not install accessories or carry cargo that impairs the performance of the watercraft.

WARNING

**Cargo in the open storage area could interfere with reboarding by causing a loss of balance and possible injury.
Do not stack cargo in such a way that it interferes with reboarding.**



- A. Ski Tow Eye
- B. Open Storage Area
- C. Hand Strap
- D. Stern Eyes

Towing (a wakeboarder, water skier, tuber, etc.)

Towing a wakeboarder/water skier/tuber

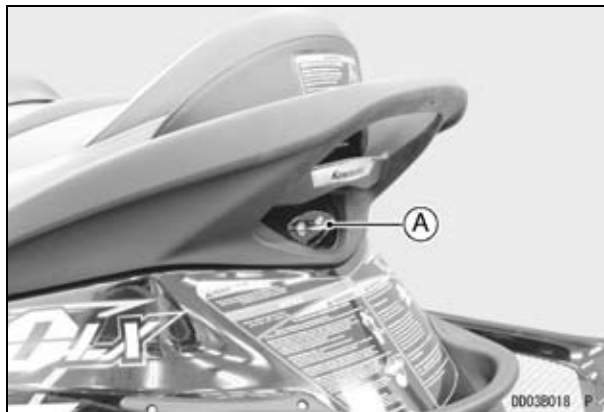
Towing a wakeboarder, water skier, or tuber is a three-person team sport involving the watercraft operator, the backward-facing observer and the wakeboarder/skier/tuber. Everyone must know their equipment, boating laws and regulations, respective responsibilities, communication signals and the fundamentals of the sport.

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WARNING

- **All riders and wakeboarders/skiers/tubers must wear a vest-type PFD (personal flotation device). And wear wetsuit bottom or equivalent to protect against possible injury to body cavities from forced injection of water. Normal swimwear will not provide adequate protection, possibly leading to severe injury.**
 - **Avoid collisions with other boats, fixed objects or swimmers by staying out of congested areas. Keep your watercraft at least 2.5 times the length of the tow rope away from the shore, shallow water, obstacles, etc. (at least 50 m (164 ft) if the tow rope is 20 m (66 ft) long).**
 - **To avoid serious injury, such as amputation to body parts, do not wrap the tow rope around body parts.**
 - **Your watercraft is not designed to tow any object that may float in the air while being towed. Do not use your watercraft for any such applications, or injuries may result.**
- Before towing, ensure that all members of the team understand the meaning of every communication signal.
 - Observe the local rules and regulations in the area where you are using the watercraft.
 - Tie the tow rope only to the ski tow eye under the rear end of the seat. Be extra careful when towing;

towing can affect the steering of your watercraft and create a hazardous situation.



A. Ski Tow Eye

Roles of the watercraft operator

The operator is responsible for the behaviour and safety of the team.

- Towing requires good operating skills. Do not attempt to tow before you have become proficient at controlling your watercraft.
- Start off by idling ahead until the tow rope is tight. When the wakeboarder/skier/tuber signals he or she is ready, be sure the water around the watercraft is clear and gradually increase the speed to raise the wakeboarder/skier/tuber. Maintain a speed that matches the skill of the wakeboarder/skier/tuber. Avoid rapid acceleration and abrupt turns.

- If the wakeboarder/skier/tuber falls, cautiously return to him/her.
- Stop towing when any part of the body of the observer and/or wakeboarder/skier/tuber is in contact with the tow rope or when they are not in a stable position.
- Be extremely observant when towing a wakeboarder/skier/tuber. Other boat operators may not be expecting your watercraft to be pulling anything behind it. Coordinate with the observer to ensure utmost safety when towing.

Roles of the observer

The observer must keep an eye on the wakeboarder/skier/tuber, relay all signals from him/her to the operator and inform the operator immediately if he/she falls, and display the ski flag.

- The observer should firmly hold the handrail behind the seat while facing rearward to watch the wakeboarder/skier/tuber being towed.
- Before towing, check that the tow rope is not wrapped around the wakeboarder/skier/tuber, or riders.
- The observer must look after the tow rope to prevent it from entering the water intake.

Towing a personal watercraft

If your watercraft runs out of fuel, develops engine problems, or needs to be towed by another watercraft, or if your watercraft needs to tow another watercraft in similar situations, tie a tow rope to the following location(s). Use a rope which is long enough

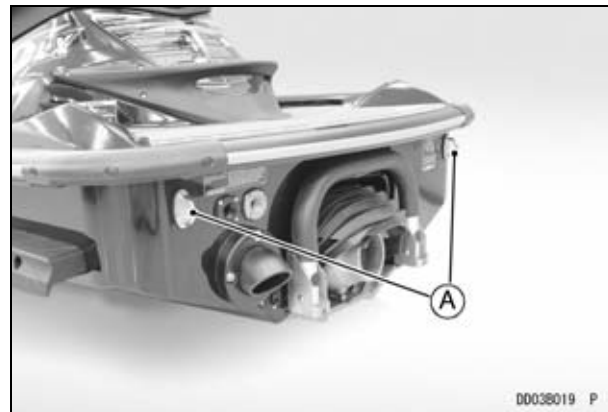
to keep 6 m or more distance between towing and towed boats. Towing must be slow, not exceeding 8 km/h (5 mph). Be extra careful when towing; towing can affect the steering of your watercraft and create a hazardous situation.

⚠ WARNING

Towing heavy items can make the watercraft difficult to control and result in an accident.

Towing a watercraft

- Attach the tow rope to the stern eyes.



A. Stern Eyes

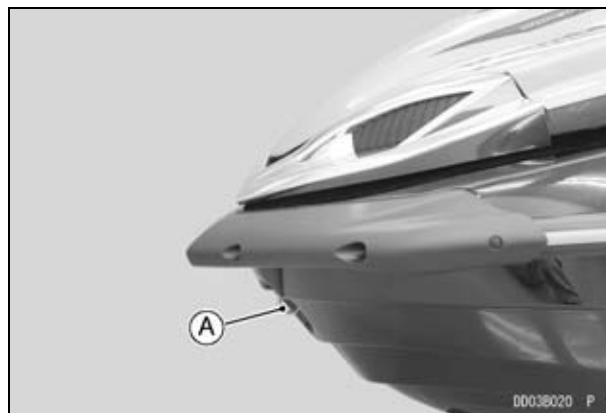
94 GENERAL INFORMATION

Being towed by a watercraft

- Attach the tow rope to the bow eye.

NOTICE

When your watercraft is being towed by another watercraft, ensure that at least one person is on board your watercraft. If it is towed with no one on board, it can tip over sideways when hit by waves, or the lighter stern can cause the heavier bow to enter waves, resulting in water entering the engine compartment and causing part of the watercraft to submerge. The rider(s) must keep the balance of the watercraft while being towed.



A. Bow Eye

- After towing, drain any water in the engine compartment and check that no water enters the engine following the procedure described in the After Submerging section.

PRE-RIDE CHECK

Each day before using the watercraft, check the following items:

WARNING

BE SURE TO PERFORM A PRE-RIDE CHECK each day before using watercraft for safety.

Check Outside Craft

- ☐ CLEAN PUMP - Clear the water intake, jet pump, and drive shaft of foreign objects.
- ☐ PUMP COVER TIGHT - Check the jet pump cover and intake grate for looseness. Tighten the mounting bolts if necessary.
- ☐ HULL DAMAGE - Inspect the hull for damage.
- ☐ DRAIN SCREWS - Check that the drain screws in the stern are securely installed.

Check Inside Craft

- ☐ STEERING - Check the operation of the steering for binding, rough spots, or excessive play. Adjust the cable if needed (see the Control Cables section in the MAINTENANCE AND ADJUSTMENTS chapter). The steering cable is sealed at both ends and does not need lubrication. If the seals are damaged, the cable must be replaced. Turn the handlebars and make sure the steering nozzle moves in response to the turn.
- ☐ SHIFT LEVER - Check the operation of the shift lever for binding, rough spots or excessive

play. Adjust the cable if needed (see the Control Cables section in the MAINTENANCE AND ADJUSTMENTS chapter).

- ☐ THROTTLE CONTROL - Check the operation of the throttle for binding, rough spots or excessive play. Adjust the cable if needed (see the Control Cables section in the MAINTENANCE AND ADJUSTMENTS chapter). The throttle lever must return to the fully closed position when released.

WARNING

A stuck throttle can cause loss of control and an accident resulting in injury or death. If the throttle does not return freely and completely, do not ride and have it inspected by your Kawasaki dealer.

- ☐ VENTILATE ENGINE COMPARTMENT - Open the front storage case lid, remove the seats and keep open for several minutes to purge gasoline fumes from the engine compartment.

WARNING

A concentration of gasoline fumes in the engine compartment can cause a fire or explosion. To prevent a fire or explosion, remove the seat to vent the engine compartment.

96 PRE-RIDE CHECK

- ❑ BATTERY TERMINALS - Check the battery terminal screws for tightness, and make sure terminal covers are in place.



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.

- ❑ FIRE EXTINGUISHER - Check the fire extinguisher is fully charged.
- ❑ FUEL PRESSURE - Loosen the fuel tank cap to relieve any pressure, then tighten the cap securely.
- ❑ FUEL LEVEL - Check the fuel level. Refill if necessary.
- ❑ ENGINE OIL LEVEL - Check the oil level in the engine. Refill if necessary. Refer to GENERAL INFORMATION CHAPTER, Engine Oil section.
- ❑ FUEL LEAKS - Check the engine compartment for fuel leaks.
- ❑ OIL LEAKS - Check the engine compartment for oil leaks.
- ❑ FASTENERS - Check and tighten any loose bolts, nuts, or clamps.
- ❑ HOSE CONNECTIONS - Be sure all hose connections are secure and that all hose clamps are tight. Check all hoses for cracks or deterioration and replace if necessary.

- ❑ DRAIN BILGE - Drain any water out of the engine compartment by removing the drain screws. Install the drain screws securely when all the water has been drained.
- ❑ ENGINE SHUT-OFF LANYARD KEY - Start the engine and run it for a few seconds (see the Starting the Engine section). Pull the lanyard key off the stop button to check that the engine stops immediately.
- ❑ AIR BOX DRAIN CAP-Check for water and discharge it if there is any.



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.

NOTICE

To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

- ❑ STOP BUTTON - Again start the engine, run it for a few seconds, and then check that the engine "STOP" button works.

PRE-RIDE CHECK 97

- ☐ SEATS - Check that the seat latches are secure.
- ☐ STORAGE COMPARTMENT - Check that the lid is secure.
- ☐ RIDER PROTECTION - Always wear the proper flotation device and protective gear.
- ☐ MULTIFUNCTION METER - Check the operation of the multifunction meter. See GENERAL INFORMATION chapter for details.

OPERATING INSTRUCTIONS

Basic Knowledge for Operation

Read “SAFETY INFORMATION” and “PREVENT MAJOR DAMAGE” without fail. Please be sure to conduct the PRE-RIDE CHECK before boarding.

Operation by unskilled riders

- This watercraft is equipped with the Smart Learning Operation mode (SLO), which reduces the maximum watercraft speed by approximately 30 percent. Unskilled operators should practice operation of the craft using the SLO mode until they become more familiar with its operation (see the Ignition Switch in the GENERAL INFORMATION chapter).
- On your first ride, familiarize yourself with the handling of the craft. Vary the engine speed with the throttle lever to get the feel of throttle influence on steering.

Operator Swimming Ability

- Riders of personal watercraft can fall into the water and experience exposure. Operator and passengers must be competent swimmers and never travel farther from shore than they can swim.

Maximum Number of Persons

This watercraft is designed to carry the operator and up to 2 passengers. Never exceed the maximum load limit 225 kg (496 lb) or allow more than 3 persons (or 2 persons if a wakeboarder, water skier, or tuber is being towed) to ride the watercraft at a time (See the Loading/Accessories/Modifications section in the chapter).

WARNING

Overloading this watercraft can adversely affect handling and stability which can lead to an accident. To reduce the risk of having an accident, do not exceed the maximum recommended number of people.

Regardless of the number of people on board, the total weight including cargo must never exceed the load capacity limit. Passengers should always use the seats.

Safe Riding Rules

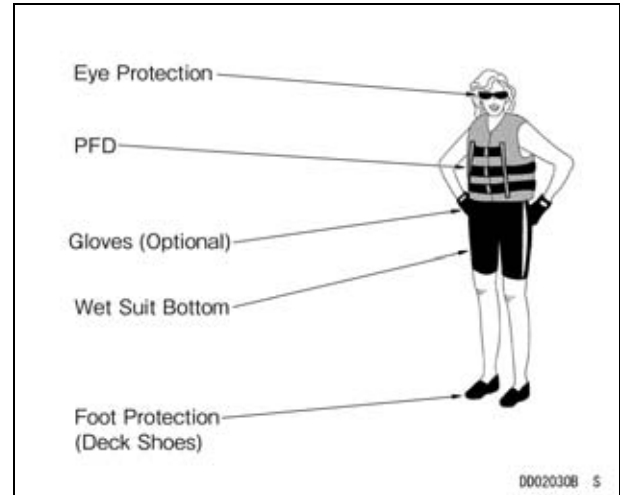
- Always follow these rules when operating your watercraft, for your own safety and that of others.

- Always comply with any Navigation Rules in effect in your area. The Coast Guard office or state boating authority nearest you can usually furnish you with the applicable rules. Check local and state regulations before operating. Kawasaki recommends that all operators complete an approved boating safety course.

Personal Flotation Device and Safety Gear

U.S. federal regulations require that one U.S. Coast Guard approved personal flotation device (PFD) be carried for each person aboard when operating on water under Coast Guard jurisdiction. In some state waters not under federal jurisdiction, other flotation devices are permissible in addition to those specified by federal law. Other countries may have their own standards and regulations; be sure to follow them. As a rule, waist-type ski belts do not qualify as adequate flotation devices. The full vest type is recommended. Check local regulations to see what type of personal flotation device may be required in your area.

Drowning Hazard: a personal flotation device (PFD) must be worn by the operator and passengers. Kawasaki recommends that the operator and passengers wear a vest-type PFD (type 1, 2 or 3) at all times.



WARNING

- All riders must wear a Coast Guard approved personal flotation device (PFD) that is suitable for personal watercraft (PWC) use. Kawasaki recommends a vest-type PFD. Hard impact with the water can result in unconsciousness and/or drowning. Make sure that your PFD fits correctly and tightly so that it does not come off in the water. Never use an adult size PFD for children.
- Severe internal injuries can occur if water is forced into body cavities as a result of falling into water or being near the jet thrust nozzle. Normal swimwear does not adequately protect against forceful water entry into the rectum or vagina. All riders must wear a wet suit bottom or clothing that provides equivalent protection. Wet suits are made of a thick material (neoprene) that significantly retards the velocity of water passing through it. Normal swimwear will not adequately protect you but some other aquatic wear may protect against this injury. Swimsuits that may be displaced by the force of the water will not provide that protection. Materials that are thicker, materials that are a tighter weave, materials that are water repellant, and materials that are closer fitting will tend to provide more protection. In the absence of wearing a wet suit bottom, you should select a clothing design that will maximize your protection.
- Wear protective footwear, gloves and goggles (glasses).

Watercraft Helmet..... Something You Should Know

A helmet helps protect your head, but could contribute to neck injuries.

Before wearing a helmet on a personal watercraft you must weigh the benefits and risks.

Benefits: Helmets offer some head protection from impacts with hard objects.

Risks: Helmets could reduce peripheral vision and increase fatigue; both of which could lead to a collision. Helmets could also increase loads on the neck and throat if you fall into the water, which could result in severe injuries.

You must decide.

If you plan to ride under conditions in which you believe there is a higher chance that your head may be hit by a hard object, such as falling during a race, you may choose to wear a helmet and accept the risks. On the other hand, if head impact with the water is more likely, you may choose to not wear a helmet.

Fire Extinguisher

A charged and functional fire extinguisher must be carried on board, and may be stored in the storage compartment (see the Storage Compartment section in the GENERAL INFORMATION chapter). Be sure to install the fire extinguisher securely.

Because the watercraft is an inboard boat less than 4.8 m (16 ft) in length, federal regulations require that a fire extinguisher rated "B-1" (minimum 1 kg or 2 pound capacity) be aboard when operating on navigable waters under Coast Guard Jurisdiction. In addition, most states, parks, and wildlife departments require that a U.S.C.G. approved fire extinguisher be carried aboard, even on waters not under federal jurisdiction.

Other countries may have their own standards and regulations; be sure to follow them.

WARNING

A fire aboard the watercraft may cause burns, melt the hull and cause it to sink, leaving the operator and passengers stranded. To prevent any fire from consuming the watercraft, always carry a fire extinguisher.

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Standard equipment does not include a fire extinguisher. Many owners prefer to provide their own fire extinguishers. If you wish, your dealer can furnish you with an approved Kawasaki accessory fire extinguisher (P/N. W99997-101A).



Weather condition

- Before operating your watercraft, check with local weather reports.

NOTE

- *Generally, weather can change more suddenly over the sea than over the land, so pay close attention to the weather when using the watercraft. If you notice any signs of strong wind or fog, immediately return to shore.*

WARNING

- Do not operate the watercraft in adverse weather condition or in wild waves. It could lead marine peril.
- Slow down before crossing waves. Crossing wild waves at high speeds could increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones.

- The operator must judge what is a safe speed taking into consideration visibility, traffic, weather conditions, waves, etc. Water conditions such as converging waves can have considerable influence on the ride characteristics of a personal watercraft and can cause the operator and passengers to fall off. Additionally, attempting to achieve maximum speed in adverse conditions can cause abrupt movement of the boat causing possible injury to the riders.

Basic Operating and Riding

Posture on the Seats

When riding the watercraft, sit astride the seat.

WARNING

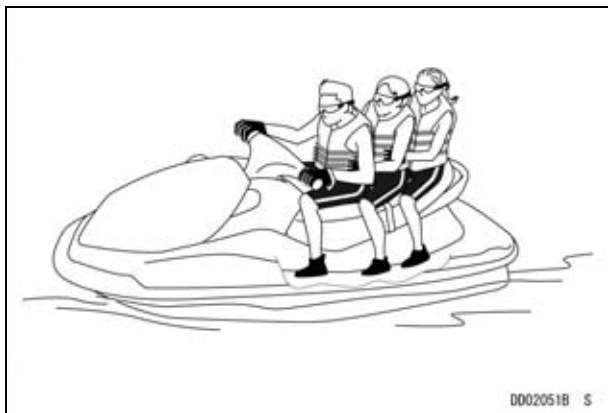
Rough water can cause the watercraft to suddenly rise, creating the potential for the handlebar to strike and injure a rider who is positioned too close. To avoid injury, never ride with any part of your body immediately above the handlebar.

If porpoising occurs, that is, the front of the craft rises and falls rapidly, move your body weight further forward.

Operation with Passengers

- Before starting, the operator should ensure passengers are sitting properly astride the seats. They should hold on to the person in front of them or a hand strap while keeping both feet on the deck for balance when travelling or they could fall and injure themselves. The driver should warn passengers before opening the throttle and should not try to throw passengers off.

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- Never allow the passenger to ride in front of the operator. Do not carry children unless both feet are able to reach the deck.

Boarding from Water

Solo Operation

- Move to the rear of the watercraft.
- Make sure the engine is stopped.
- Grasp the handrail on the rear of the seat, pull the reboarding step down, and while placing one knee and then one foot or both feet on the step, pull yourself up onto the deck. Place one knee on the deck rear end, then the other. Be careful not to slip on the step or boat as you reboard.
- Grasp the hand strap and while balancing the craft place your feet on the deck.

- Sit astride the seat.

Operator and Passengers

- While the operator is balancing the craft, the passengers climb aboard from the rear of the craft in the same way as in Solo Operation.

⚠ WARNING

The reboarding step is adjacent to the jet pump nozzle, and water and/or debris ejected from the jet thrust nozzle can cause severe injury. To avoid injury, The operator should always stop the engine and pull the engine shut-off lanyard key before a passenger uses the reboarding step. The passenger should not use the reboarding step while the engine is running.

Boarding from a Dock

- Do not jump onto the watercraft from the dock.
- First place one foot on the deck near the dock, then while holding the handlebar and balancing the craft by transferring body weight straddle the craft and sit down on the seat.

Break-In

A new watercraft should be ridden with care during the break-in period to allow mechanical components to “bed-in” and produce smooth, long wearing surfaces.

Do not exceed the engine speeds listed below during the break-in period.

During the first five minutes: Maximum 2 500 rpm
 During the next hour: Maximum 4 000 rpm
 During the next 30 minutes: Maximum 6 000 rpm

Careful treatment of the craft during the break-in period will result in more efficient, reliable performance and a longer life for the craft.

In addition to the break-in described above, we recommend that the owner take his watercraft to an authorized Kawasaki JET SKI watercraft dealer after the first ten hours of operation for initial maintenance service. See the Periodic Maintenance Chart in the MAINTENANCE AND ADJUSTMENTS chapter.

Stopping the Engine

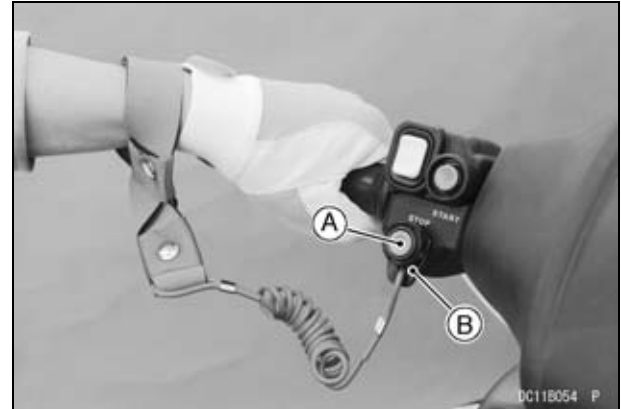
The engine can be stopped in one of the following two ways.

- Push the red “STOP” button. It is not necessary to hold the button in to stop the engine. After the engine stops, the “STOP” button resets itself and the engine is ready to start.
- Pull the engine shut-off lanyard key off the stop button. To start the engine the lanyard key must be pushed under the stop button.

Remove the ignition switch key after stopping the engine in either case.

⚠ WARNING

A JET SKI watercraft requires throttle (thrust) to steer and help you to avoid objects - you have no directional control when the engine is stopped. To avoid objects the engine must be running and throttle applied to steer away from objects. Always check the throttle and steering controls for proper operation before starting the watercraft.



A. Stop Button
B. Lanyard Key

If the engine must be stopped immediately in an emergency, push the red “STOP” button or pull the engine shut-off lanyard key off the stop button.

Some possible “EMERGENCY” situations are:

- The engine speeds out of control.

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- The throttle lever does not release completely.

⚠ WARNING

A JET SKI watercraft requires throttle (thrust) to steer and help you to avoid objects - you have no directional control when the engine is stopped. If the throttle fails, do not operate the watercraft until the source of the problem is found and corrected.

⚠ WARNING

After riding, remove the ignition switch key and engine shut-off lanyard key from the watercraft to avoid unauthorized use by children or others.

NOTICE

A discharged battery will not provide power to start the engine. To prevent the battery from discharging, always remove the ignition key after stopping the engine.

Starting the Engine

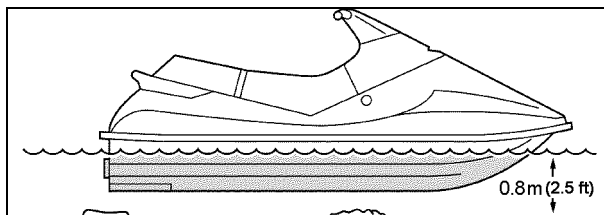
- Read the PRE-RIDE CHECK chapter in this manual and follow its instructions before putting the watercraft in the water.

- After transporting or refueling and before starting the engine, open the front storage compartment lid and remove the seats for several minutes to ventilate the engine compartment.

⚠ WARNING

A concentration of gasoline fumes in the engine compartment can cause a fire or explosion. To prevent a fire or explosion, remove seat for several minutes to purge gasoline fumes from engine compartment.

- Place the watercraft in at least 0.8 m (2.5 ft) of water which is clear of weeds and debris. Make sure the area ahead of the watercraft is clear of swimmers, boats, and obstacles.



NOTICE

- **When starting the engine or riding, the watercraft must be in water at least 0.8 m (2.5 ft) deep. Sand or debris from the bottom may be drawn into the jet pump and damage the pump and impeller, and possibly clog cooling lines.**
- **If operating in shallow or debris-laden water, objects or sand from the bottom can get sucked in damaging the impeller and possibly clogging cooling hoses which can cause severe engine damage from overheating.**
- **Avoid beaching the watercraft. Stones and sand can scratch the hull and be drawn into the jet pump, causing damage to the impeller.**

- In the seated position push the lanyard key under the stop button and put your left hand through the other end of the lanyard to attach it to your wrist. Pull the lanyard to make sure it is securely attached and keep it free from the handlebars so that the engine stops if the driver falls off.

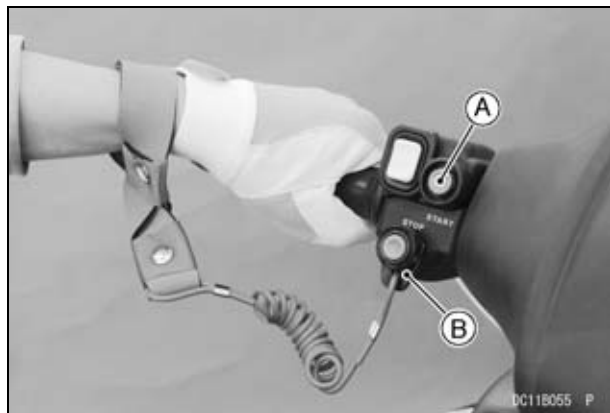
NOTE

- *The engine neither cranks nor starts with the lanyard key removed from the stop button.*
- Insert the ignition key into the key slot in the center storage case and press the key further in.
- If the engine is not started within three minutes, the ignition switch turns off automatically.

NOTE

- *This watercraft is equipped with two kinds of ignition keys, SLO and FPO. Choose an appropriate key depending on your skill. These keys are equipped with an immobilizer system. Only use coded and registered keys. Refer to the Ignition Switch section in GENERAL INFORMATION chapter for more details.*
- *The watercraft is equipped with a vehicle-down sensor, which causes the engine to stop automatically and the warning indicator light to illuminate and the engine warning indicator and the "FI" character blink when the watercraft has capsized and the start button is pushed in. If the watercraft has capsized and been righted within 3 minutes, push the start button to start the engine. If the watercraft has capsized for more than 3 minutes, after righting the watercraft, first push the key and then push the start button to start the engine.*
- Be sure to keep the key inserted in the slot while riding the watercraft. This is important because if you lose the keys at sea you will be unable to start the engine again and may end up being stranded.
- With your left hand, push the green start button and release it when the engine starts. If the engine does not start within 5 seconds, release the button. Wait 15 seconds before trying again. If the engine does not start after several attempts, see the IN AN EMERGENCY chapter.

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A. Start Button
B. Lanyard Key

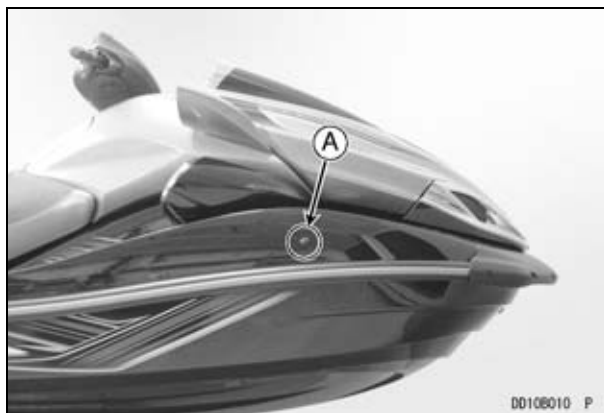
NOTE

- Wait 15 seconds between each operation of the starter. This will extend battery and starter life significantly.

NOTICE

Do not push the “START” button while the engine is running or while the starter is still spinning as this causes premature starter wear and may cause it to jam.

- After the engine has started, allow it to warm up for about 1 minute. Apply a little throttle occasionally. Excessive idling can foul the spark plugs.
- Check that water comes out of the bypass outlet in the right side of the hull when the throttle is applied. This indicates that cooling water is circulating. If there is none, shut off the engine and find the source of the problem. When the exhaust system is dry, it can take up to 15 seconds for water to appear at the bypass outlet.



A. Bypass Outlet

Launching

Launching/Start

Launching

- Before putting the watercraft in the water, be sure you have followed the Pre-ride Checklist.
- Before launching, check the ramp for suitable surface conditions, inclination and width for both the trailer and tow vehicle.

NOTICE

Ensure the drain screws are securely tightened before launching to prevent flooding which may cause sinking or severe engine damage.

- Attach a bow line to the watercraft and detach the trailer tie-downs.
- Wait until it's your turn then back the trailer to the water.
- Unlock the winch and push the craft slowly off the trailer into the water.
- Move your watercraft to a docking or loading area and park your tow vehicle. Do not block the ramp.

Start

- Check that the shift lever is in the "F" position to go forward or "R" for reverse.
- When leaving the dock, either push the watercraft away from the dock or run at a slight angle away from it until there is enough room for the rear of

the craft to swing, since the watercraft turns at the stern and not at the bow.

- Check that your path is clear and move the handlebar in the direction you want to go.

WARNING

Failure to see other boats or obstructions in your path can cause an accident resulting in injury or death. To reduce the risk of accident, always observe your surroundings. This is especially critical during a new operator's first exciting ride.

- Apply the throttle to produce enough thrust from the jet pump to allow directional control over the watercraft.

NOTICE

Avoid quick turns or acceleration when leaving the dock, or you might hit the dock and damage the watercraft. The operator should make sure there is room for a turn before making any quick maneuvers.

- Accelerate gradually as you proceed into open water. Remember to observe "No Wake" zones and speed limits.
- As speed increases the watercraft will level out in the water. This is called planing.
- Once the watercraft is planing, you can back off the throttle and select your desired speed.

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- Keep alert for other watercrafts, swimmers, or obstructions in your path.

Shallow Water Start

- Whenever possible, anchor the watercraft in shallow water instead of beaching it. This will reduce scratches to the hull and prevent sand and rocks from entering into the jet pump causing damage to the pump when restarting the engine.
- If the watercraft is beached, sand and rocks which are pushed into the jet pump by natural wave action can be flushed out by pushing down on the stern vigorously many times.

NOTICE

- **When starting the engine or riding, the watercraft must be in water at least 0.8 m (2.5 ft) deep. Sand or debris from the bottom may be drawn into the jet pump and damage the pump and impeller, and possibly clog cooling lines.**
- **If operating in shallow or debris-laden water, objects or sand from the bottom can get sucked in damaging the impeller and possibly clogging cooling hoses which can cause severe engine damage from overheating.**

Stopping the JET SKI Watercraft

WARNING

This high-performance watercraft is capable of high speeds that can be hazardous when directly approaching any moving or stationary object. To avoid an accident, never directly approach any moving or stationary object closer than 100 meters (328 feet) when traveling at high speed. Always throttle down before approaching your intended stopping area.

This watercraft stops by using natural water drag to bring the craft to a halt.

- Release the throttle before you reach your intended stopping area.
- Coast towards the stopping area with the engine idling.

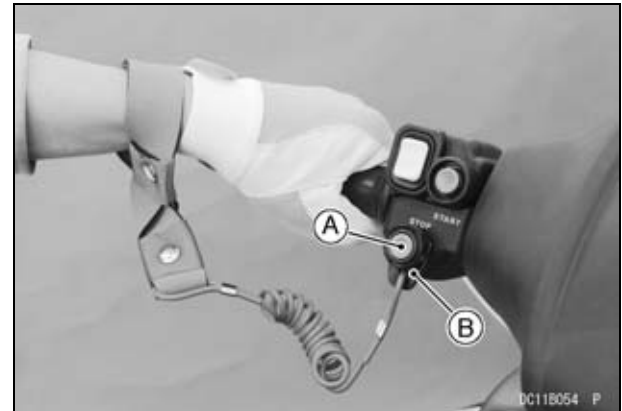
NOTICE

Avoid beaching the watercraft. Stones and sand can scratch the hull and be drawn into the jet pump, causing damage to the impeller.



A. Throttle Lever

- Press the stop button or pull the lanyard key off the stop button to stop the engine.



**A. Stop Button
B. Lanyard Key**

Releasing the throttle slows forward motion but the engine will still be running, so you can steer the boat after reapplying the throttle. In this manner you can turn and move away from any obstacles.

Push the stop button when you are approaching the shore and intend to stop. The engine stops immediately, so it prevents sand or debris from entering and damaging the jet pump. Never run the engine in water less than 0.8 m (2.5 ft) deep.

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Stopping Skills

Stopping distance depends partially on rider and passenger weight and position, idle set speed, and operating speed. Experienced operators can usually shorten stopping distance by using various riding techniques. Turning the boat sharply (using the throttle) while stopping is a method which can be used to decrease stopping distance.

Minimum Stopping Distances

The minimum stopping distance of this watercraft with the operator and passengers from maximum speed is 103 m (338 ft). (Obtained under controlled conditions, actual stopping distances may vary depending on vehicle load and water conditions.)

Turning the JET SKI Watercraft

Turning the watercraft requires a combination of two actions:

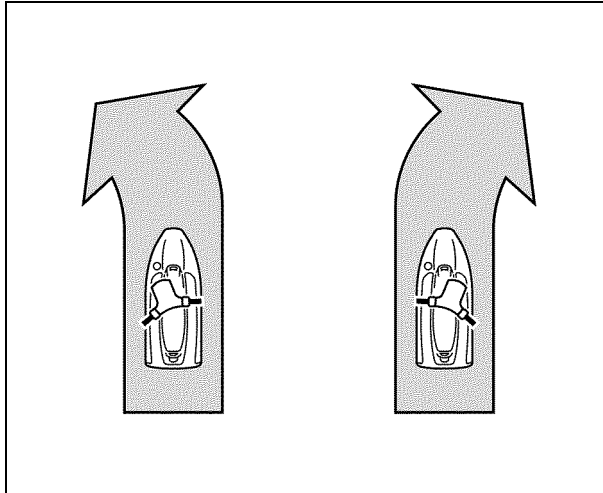
- Turning the handlebar
- Using the throttle

⚠ WARNING

A JET SKI watercraft requires throttle (thrust) to steer. Releasing the throttle completely reduces the ability to steer and stopping the engine eliminates the ability to steer. Either operation may cause you to hit an object you are trying to avoid, causing injury or death. To avoid collisions do not stop the engine while riding; maintain or apply throttle as needed to maintain thrust at the jet nozzle to initiate a turn.

Point the handlebar to the left for a left turn

Point the handlebar to the right for a right turn

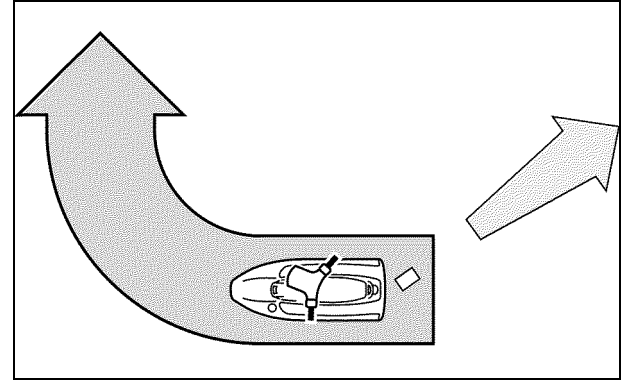


LEFT

RIGHT

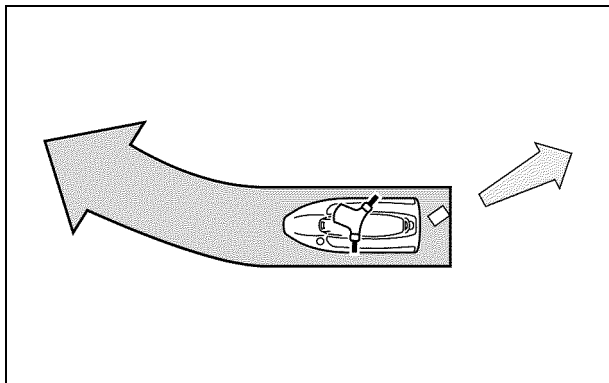
Using the throttle is another important part of turning maneuvers. Applying the throttle produces thrust from the jet pump giving you directional control over the watercraft.

High thrust from the jet pump makes the boat turn more sharply.

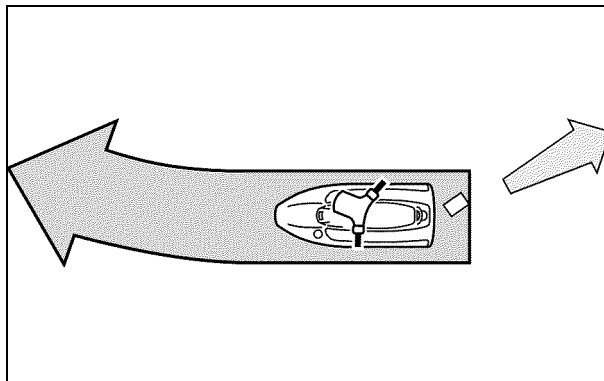


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Less thrust from the jet pump makes the boat turn less sharply.

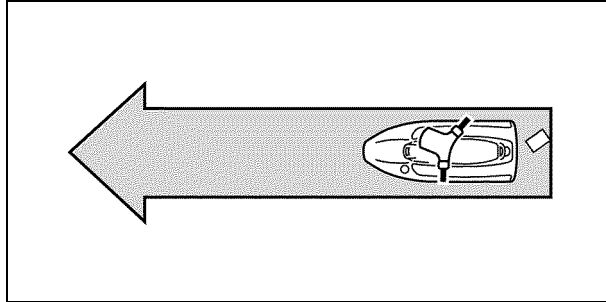


If you release the throttle completely, there is little thrust from the jet pump. The boat turns slowly and steering ability is reduced.



IDLE = SLOW, GRADUAL TURN

If you stop the engine while riding, there is no thrust from the jet pump. The boat will go straight ahead even though the handlebar is turned.



NO THRUST = NO TURN

This is one characteristic of jet drive boats which is important to remember when you make an emergency maneuver: **YOU MUST HAVE THRUST TO TURN**, so keep the throttle on or apply throttle as needed to maintain thrust at the jet nozzle.

- Throttle down before entering a turn.

⚠ WARNING

This is a very maneuverable, sport watercraft and quick turns or sudden acceleration can cause the passengers to fall overboard, causing an accident with other boats resulting in injury or death. To help prevent passengers from falling overboard, avoid making quick turns and sudden accelerations when carrying passengers. Look carefully for other boats before making any maneuvers. Advise passengers to hold on at all times.

Before making a turn, always look over your shoulder to make sure no other watercraft is coming from behind. Do not rely solely on the rear view mirror; you may misjudge a watercraft's direction, distance or speed, or you may not see it at all.

The Kawasaki Smart Steering™ (KSS™) system on your JET SKI watercraft assists you in learning to negotiate turns and maneuver. Refer to the Controls section in the GENERAL INFORMATION chapter.

Operating the JET SKI Watercraft in Reverse

- If possible, please do not use reverse except for the cases where it is unavoidable, such as maneuvering to a dock or the shore.
- Be sure to slow the watercraft to a stop before shifting to reverse. Release the throttle lever completely. Pause until the watercraft slows down, then move the shift lever into the "R" position.

⚠ WARNING

Suddenly shifting into reverse at high speed can cause the bow to suddenly dive into the water, throwing the occupants forward which can cause severe injury. To avoid injury, do not shift into reverse while going forward and do not use reverse as a brake. Slow the watercraft to a stop and alert any passengers before shifting to reverse.

- Turn around and look behind you before backing up to be sure there are no other boats, swimmers, or obstructions in your path. Do not rely solely on the rear view mirrors; you may not see objects clearly, or at all.
- Gradually open the throttle and begin backing up cautiously.

Docking the JET SKI Watercraft

- When docking, use the throttle efficiently both to control the craft's speed and to keep directional control over the craft.
- When you are approaching the shore where you intend to land, push the stop button to prevent sand from entering the jet pump and the impeller. Do not operate the engine in water shallower than 0.8 m (2.5 ft).

NOTICE

- When starting the engine or riding, the watercraft must be in water at least 0.8 m (2.5 ft) deep. Sand or debris from the bottom may be drawn into the jet pump and damage the pump and impeller, and possibly clog cooling lines.
- If operating in shallow or debris-laden water, objects or sand from the bottom can get sucked in damaging the impeller and possibly clogging cooling hoses which can cause severe engine damage from overheating.
- Avoid beaching the watercraft. Stones and sand can scratch the hull and be drawn into the jet pump, causing damage to the impeller.

- Remember that stopping the engine causes you to lose steering control, so cut the engine only after you have reduced speed and maneuvered into your final approaching position. You cannot make any emergency maneuvers with the engine stopped.

Fall Recovery

If the operator falls off the craft, the lanyard key is pulled off the stop button and the engine is stopped immediately.

⚠ WARNING

Maintaining hold of the handlebar during a fall may cause you strike the watercraft, resulting in injury. To avoid injury during a fall, release your grip on the handlebar.

- Reboard from the rear of the craft. Push the lanyard key under the stop button, and push the start button to start the engine.

Righting the Capsized Watercraft

If the watercraft should capsize, the engine is stopped by the lanyard key being pulled off the stop button by the operator. Use the following procedure immediately to right the craft.

⚠ WARNING

This watercraft will not self-right if capsized, leaving the operator and passengers stranded. To avoid being stranded in the case of capsizing, be sure you know the proper righting procedure.

- Make sure the engine is stopped. If it is not stopped, immediately pull the lanyard key off the stop button or push the stop button to stop the engine.

NOTICE

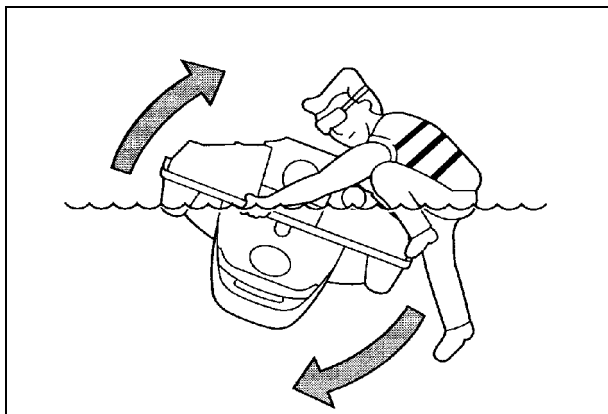
To prevent severe engine damage, immediately stop the engine if the craft capsizes. If it continues running whilst capsized, water can enter the throttle body and engine, locking the engine and causing severe and immediate damage to internal engine parts.

Do not operate the watercraft with water in the engine.

Do not try to start the engine until it is completely empty of water; internal engine parts could be severely and immediately damaged. If water gets into the engine, follow the procedure described in the After Submerging section.

- Swim to the rear corner of the capsized craft.
- Push down on the port side of the craft with one hand and reach across the hull and grasp the rear of the deck with the other, as though trying to pull yourself up onto the bottom of the hull.

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- Now, push down on the rear corner of the hull with one foot, using your body weight to roll the capsized craft toward you.
- As the craft rolls over toward you, reach for the far side of the hull, if needed, and pull it on over.

NOTICE

Rolling the capsized watercraft counter-clockwise (to its **STARBOARD** side) can cause water in the exhaust system to run into the engine, with possible engine damage. Always turn the capsized boat clockwise so that the **PORT** side always faces downward.

- After the watercraft has capsized and been righted, it may have water in the engine compartment. Carefully go back aboard from the rear, trying not to let more water into the engine compartment under the seats.

NOTE

- If you have a passenger, he or she may want to return to shore on another watercraft to decrease the load on yours, and prevent it from taking on more water.
- Push the lanyard key under the stop button, and push the start button to start the engine.
- Tow the watercraft slowly to shore, beach it, and drain the water out of the engine compartment. This will help prevent getting water in the engine, which could cause severe and immediate damage to internal engine parts.

NOTICE

Water left in the intake tract and supercharger can corrode the supercharger rotors and prevent them from turning. To prevent corrosion, remove any water or moisture from the intake tract as soon as possible. Coat the supercharger rotors with fogging oil before prolonged storage.

After Submerging

NOTICE

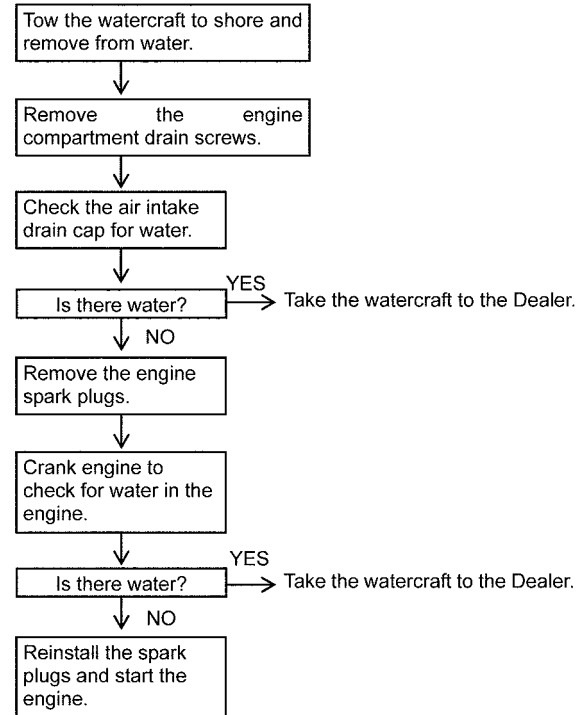
If water enters the engine it will cause severe damage. Do not operate the watercraft with water in the engine. Do not try to start the engine until it is completely empty of water. If water gets into the engine, follow this procedure immediately! If water is left in the engine more than a few hours, it will destroy the crankshaft bearings and damage other internal engine parts.

If the watercraft is swamped, water may enter the engine through the throttle body. Water also may enter the fuel tank.

Please note that since this watercraft is equipped with a supercharger, special care is needed when water has entered it.

You need systematic inspections and remedies for a swamped watercraft. The following procedure explains the necessary steps you must take. Carefully read the summary of the procedure first, and then the detailed steps.

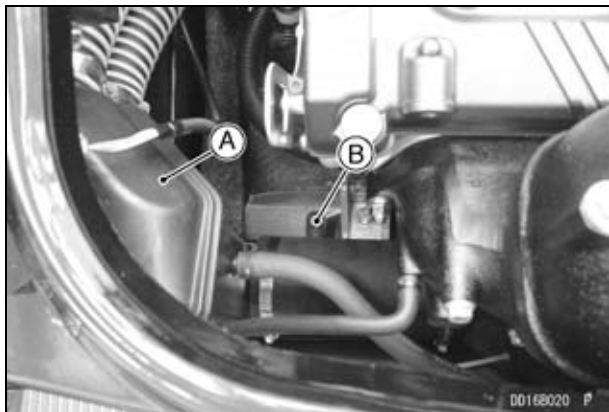
Summary of the procedure



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Details of the steps

1. Remove the craft from the water, and remove the seat.
2. Remove the drain screws in the stern to drain water out of the engine compartment.
3. Check the drain cap at the bottom of the air box for water.

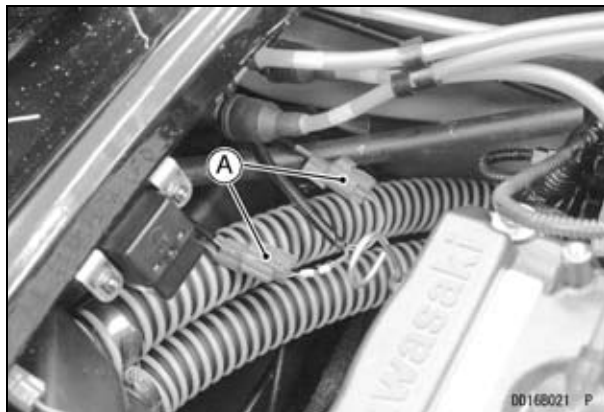


A. Air Box

B. Drain Cap

4. If water is present, take the watercraft to the dealer for service immediately since there is a strong possibility that water has entered the supercharger and the engine.
5. If there is no water present, continue the following steps.

6. Disconnect the two ignition coil connectors on the primary ignition cables located at the right front of the engine



A. Ignition Coil Connectors

7. Remove all the spark plug caps.
8. Remove all spark plugs.
9. Insert the ignition key, push the lanyard key under the stop button, and push the start button.
10. If there is water in the engine, it will be pumped out from the plug holes. Discharge the water and take the watercraft to your authorized dealer for service immediately. Do not operate the starter for longer than 5 seconds. Wait 15 seconds before using it again.

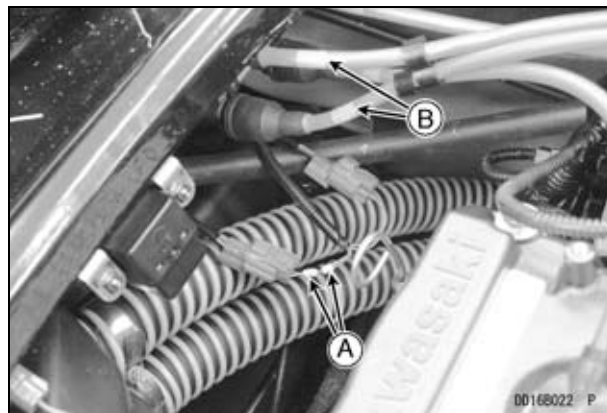
⚠ WARNING

A water and gasoline mixture will be forcibly ejected from the spark plug holes and could injure your eyes. To prevent eye injury, do not lean over the engine when performing this procedure. If gas does get in your eyes, immediately wash them with plenty of clean, fresh water and consult a physician as soon as possible.

11. If there is no water coming out of the engine, spray the spark plugs clean with air and then refit their plug caps.
12. Reconnect the ignition coil connectors.

NOTE

- *Be sure to make correct connections (the connector of the spark plug cables marked 2 & 3 with the connector of the leads marked 2 & 3). Then, reconnect the other connector.*
- *Before reconnecting, apply a high quality water-proof marine grease to the connectors.*



A. 2 & 3 Marks (Leads)

B. 2 & 3 Marks (Spark Plug Cables)

13. Start the engine by pressing the start button and run for less than 15 seconds.

NOTICE

To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

14. Remove the dipstick and check for the presence of water in the engine oil. (If there is water, oil looks milky.)

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15. If the oil looks milky, then change the oil and repeat items 13 & 14 until the oil no longer appears milky.
16. If the engine does not start, there may be water in the fuel system.
17. If the fuel tank has water in it, it must be emptied with a pump or siphon. Refill the tank with fresh fuel. Dispose of the contaminated fuel at an appropriate hazardous waste site.

WARNING

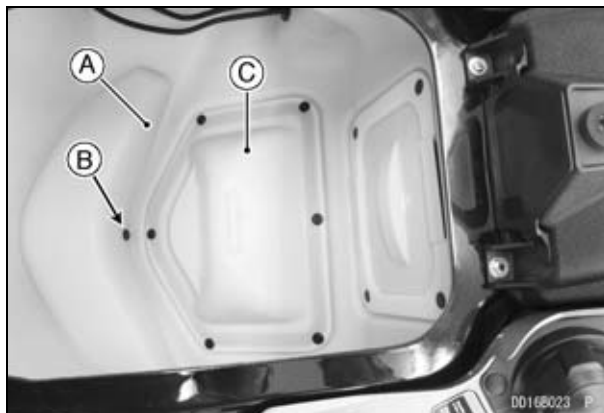
Gasoline is extremely flammable and can be explosive under certain conditions. To avoid a possible fire or explosion, pull the lanyard key off the stop button. Do not smoke. Make sure the area is well-ventilated and free from any source of flame or sparks; this includes any appliance with a pilot light.

WARNING

Gasoline is toxic and pollutes the environment. To protect the environment, do not discard gasoline; always return it to an authorized recycling center.

18. Continued problems may require cleaning of the fuel line to drain water.
19. Open the front storage lid, remove the storage case and check for water in the storage compartment. If necessary, drain the water using

the drain plug at the bottom. Also remove the recessed cover and check the battery condition.



A. Front Storage Compartment

B. Drain Plug

C. Battery Recess Cover

20. Reinstall the seats and secure them.
21. Reinstall the drain screws in the stern.
22. Finally run the watercraft IN WATER for at least 10 minutes to dry any remaining water and blow any foreign matter (like salt) out through the exhaust.

NOTE

○ If this procedure seems difficult and beyond your mechanical abilities, see your authorized Kawasaki dealer.

End of the Day Checklist

NOTICE

Since JET SKI personal watercraft are not designed to be docked in the water for extended periods, prolonged immersion in water will cause the hull paint to bubble and peel, as well as electrolytic erosion of some metal parts in the jet pump. To prevent this, remove your JET SKI watercraft from the water at the end of each day's use; do not leave it in the water overnight. Your JET SKI watercraft will last longer and look better.

Drain the Exhaust System

To prevent major engine damage and to help prolong the life of the exhaust filter, you must perform the following procedure to expel excess water from the exhaust system. This helps prevent premature wear due to internal engine corrosion and the build up of salt or other mineral deposits that can lead to cooling system blockage and overheating.

- After each use in fresh water, remove the watercraft from the water.
- Start the engine and run it for several seconds to purge the exhaust system of excess water. Rev

the engine repeatedly, until water stops coming out of the exhaust at the stern.

NOTICE

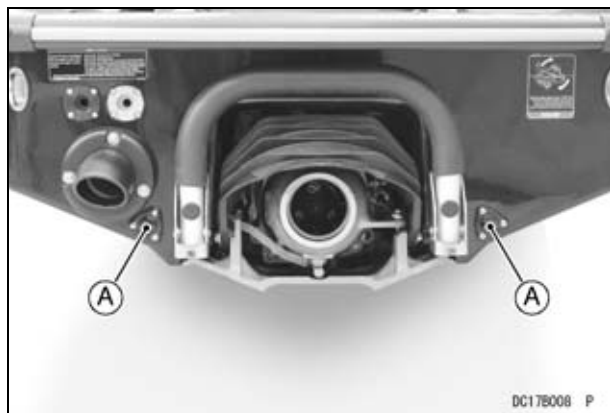
To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

- After each use in salt water, flush the cooling system with fresh water (see the Cooling System Flushing section in the MAINTENANCE AND ADJUSTMENTS chapter). This will help prevent build up of salt deposits and eventual cooling system blockage.

Clean the Engine Compartment

- Remove the seats.
- If water has accumulated in the engine compartment, remove the drain screws in the stern to drain water out of the compartment.
- When the watercraft has been used at sea, rinse the engine compartment with fresh water.
- Be sure to reinstall the drain screws after draining.

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A. Drain Screws

NOTICE

Water can enter the engine through the air-box and cause severe engine damage, and shorts in electrical equipment. To prevent water damage, cover the air intake hole and do not spray electrical equipment.

- Apply corrosion protection coating to the supercharger rotors (see the Supercharger section in the MAINTENANCE AND ADJUSTMENT chapter).

NOTICE

Moisture in the air drawn through the supercharger during use can condense after the engine is stopped and not used for prolonged periods, often creating mineral deposits on internal parts that may lead to supercharger lock-up, particularly if the watercraft has been used in salt water. At the end of each day's use, oil the supercharger to prevent the formation of mineral deposits (see the Supercharger section in the MAINTENANCE AND ADJUSTMENT chapter).

- If you won't be using the watercraft for more than a week, lubricate the internal engine components to help prevent corrosion.
- If you won't be using the watercraft for more than two weeks, remove the battery and keep fully charged using a maintenance charger (see the Battery section in the MAINTENANCE AND ADJUSTMENT chapter).
- Wipe the engine compartment dry, and install the seats.
- When the watercraft is ready for storage, leave the seats off, or block them up with 10 mm (one half inch) spacers to aid air circulation and prevent condensation from forming.

Clean the Outside Hull

- Wash the hull, deck, water intake, propulsion system, and speaker (JT1500M) with fresh water.

NOTICE

Avoid spraying water with great force near the speakers.

Clearing Clogged Impeller

Occasionally, weeds or other debris may lodge in the impeller/jet pump, severely impairing performance. This foreign matter must be completely cleaned out for the jet pump to function properly.

- Shut off the engine, and beach the craft.

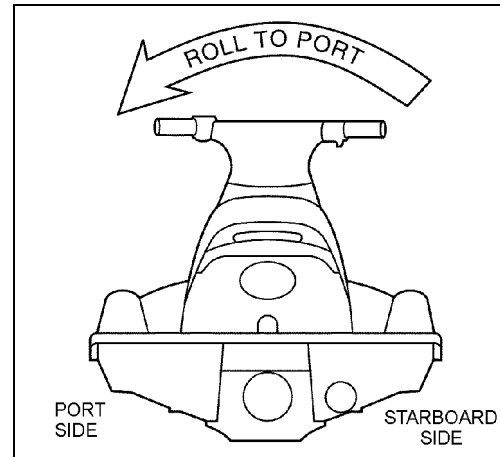
⚠ WARNING

The jet pump contains moving parts that can cause severe injury. To prevent injury, never attempt to clear the jet pump of debris while the engine is running. Stop the engine and pull the lanyard key off the stop button before checking the pump for debris.

- Pull the lanyard key off the stop button.
- Place a protective pad next to the boat.
- Tip the boat on its **port side**.

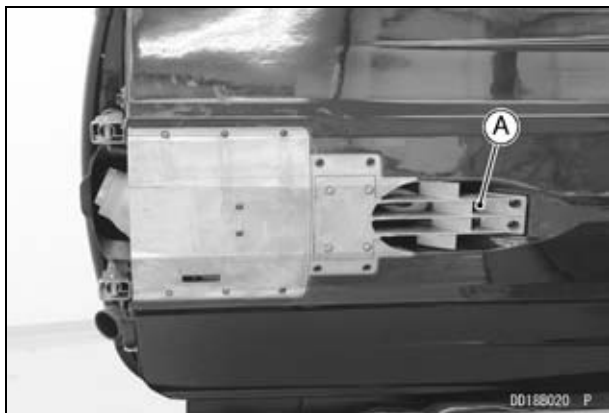
NOTICE

Rolling the watercraft to its **STARBOARD** side can cause water in the exhaust system to run into the engine, with possible engine damage. Always turn the boat on its **PORT** side.



- Clean the water intake, drive shaft, impeller, jet pump housing, outlet, and steering nozzle of any seaweed, grass, or other debris.

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A. Water Intake

NOTICE

Engine cooling water is supplied by the jet pump, and any loss of pump performance may cause overheating resulting in severe engine damage. To prevent overheating, be sure the pump area and all its components are completely clear.

TRANSPORTING AND STORAGE

Transporting

- When transporting the watercraft on a trailer, observe the trailer laws and regulations in your area.
- Be sure the trailer matches with the craft's weight and hull design.
- Securely fasten the watercraft to prevent movement between the craft and trailer.

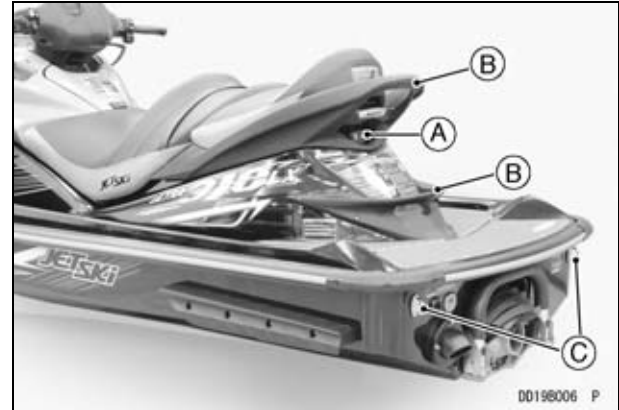
NOTICE

Do not use the handrail to lift the craft or attach tie-downs as this can damage the handrail and/or hull.

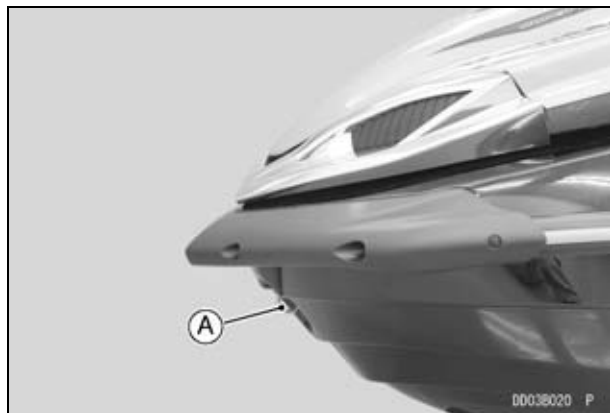
After transporting and before starting the engine, open the front storage compartment and remove the seats for several minutes to ventilate the engine compartment (see Seat Latches and Storage Compartment sections in this chapter).

WARNING

A concentration of gasoline fumes in the engine compartment can cause a fire or explosion. To prevent a fire or explosion, remove the seat to vent the engine compartment.



- A. Ski Tow Eye
- B. Handrails
- C. Stern Eyes



A. Bow Eye

NOTICE

Only use the bow and stern eyes when fastening the watercraft to the trailer.

STORAGE

During the winter, or whenever your watercraft will not be in use for more than 30 days, proper storage is essential. It consists of checking and replacing missing or worn parts; lubricating parts to ensure that they do not corrode and, in general, preparing the watercraft so that when the time comes to use it again, it will be in top condition. See your Kawasaki JET SKI watercraft dealer for this service or do the following.

NOTICE

Since JET SKI personal watercraft are not designed to be docked in water for extended periods, prolonged immersion in water will cause the hull paint to bubble and peel, as well as electrolytic erosion of some metal parts in the jet pump. To prevent this, remove your JET SKI watercraft from the water at the end of each day's use; do not leave it in the water overnight. Your JET SKI watercraft will last longer and look better.

Preparation for Storage

Cooling System

- Clean the cooling system (see the Cooling System Flushing section in the MAINTENANCE AND ADJUSTMENTS chapter).

- When storing the watercraft in an area where the temperature drops below freezing, perform the following.

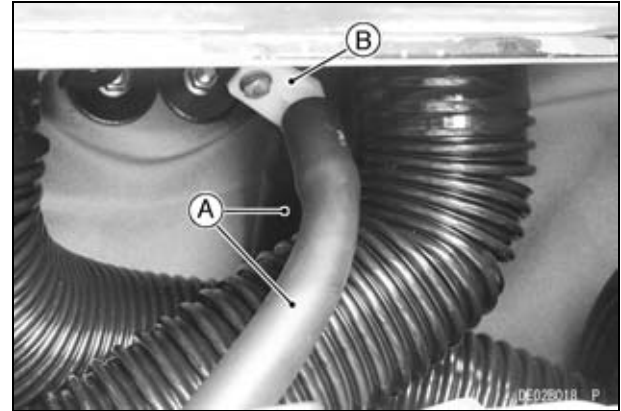
Bilge System

- Remove the handrail plate by removing the nuts and washers.



A. Nuts and Washers
B. Handrail Plate

- Clean the bilge system (see the Bilge System Flushing section in the MAINTENANCE AND ADJUSTMENTS chapter), and before reconnecting the hoses to the plastic breather fitting, blow air through the hoses to force all water out of the bilge system.



A. Blow air through both hoses.
B. Breather Fitting

Engine Oil

- Change the engine oil. See MAINTENANCE AND ADJUSTMENT chapter for detailed information.

Fuel System and Engine

- Wash the engine compartment with fresh water and remove the drain screws in the stern to drain the water. Wipe up any water left in the compartment.

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WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. To avoid a possible fire or explosion, pull the lanyard key off the stop button. 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.

- Lift the stern upward a little so that fuel and water in the bottom of the fuel tank flow toward the fuel filler so you can completely drain the fuel tank. This should be done with a siphon or pump.

WARNING

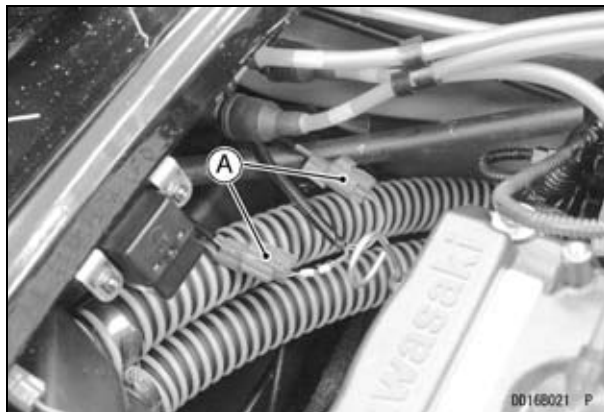
Gasoline is toxic and pollutes the environment. To protect the environment, do not discard gasoline; always return it to an authorized recycling center.

- Inspect/clean the fuel pump screen.
(See the Fuel System in the MAINTENANCE AND ADJUSTMENT chapter.)
- Refill the fuel tank with fresh fuel approximately 10 L (2.6 gal U.S.).
- Insert the ignition key.
- Push the lanyard key under the stop button, start the engine, and run it in fifteen second bursts until the fuel in the fuel system is replaced with the fresh fuel. Wait five minutes between each 15 second burst.

NOTICE

To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

- Drain the fuel tank as previously described.
- Leave the fuel filler cap loose to prevent condensation in the tank.
- Disconnect the two connectors on the primary ignition cables located at the right front of the engine.



A. Ignition Coil Connectors

- Remove the spark plugs.
- Spray fogging oil directly into each cylinder.

- Turn the engine over several times with the start button to coat the cylinder walls.

⚠ WARNING

An air/oil mist will be forcibly ejected from the spark plug holes and could injure your eyes. To prevent eye injury, do not lean over the engine when performing this procedure. If gas does get in your eyes, immediately wash them with plenty of clean, fresh water and consult a physician as soon as possible.

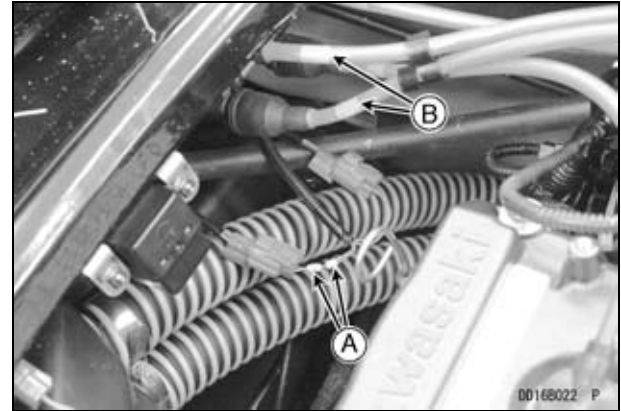
- Spray the spark plugs with fogging oil, and reinstall them.

Spark Plugs Tightening Torque:
13 N·m (1.3 kgf·m, 115 in·lb)

- Pull the lanyard key off the stop button and the ignition switch key.
- Reinstall the spark plug caps.
- Connect the primary ignition cable connectors.

NOTE

- *Be sure to make correct connections (the connector of the spark plug cables marked 2 & 3 with the connector of the leads marked 2 & 3). Then, reconnect the remaining connector.*
- *Before reconnecting, apply a high quality water-proof marine grease to the connectors.*



A. 2 & 3 Marks (Leads)

B. 2 & 3 Marks (Spark Plug Cables)

Battery

- Remove the battery (see the Battery section in the MAINTENANCE AND ADJUSTMENTS chapter).
- Clean the exterior with a solution of baking soda and water (one heaping tablespoon of baking soda in one cup of water). Rinse thoroughly with water.

NOTICE

Removing the sealed cap can damage the battery. To prevent battery damage, never remove the sealed cap.

- Coat both battery terminals with grease.
- Store the battery in a cool, dry place. Do not expose it to freezing temperatures. During storage

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it should be given a slow charge (one ampere or less) about once a month. Keep the battery well charged especially during cold weather.

Engine Mount Bracket Bolts

- Tighten all engine mount bracket bolts.

NOTE

- *We recommend that you have this service done by your authorized dealer since it requires special tools.*

Supercharger

Take the watercraft to your authorized dealer for the following service procedures.

- Check the drive belt for wear/damage.
- Apply corrosion protection coating to the supercharger rotors (see the Supercharger section in the MAINTENANCE AND ADJUSTMENT chapter).

NOTICE

Moisture in the air drawn through the supercharger during use can condense after the engine is stopped and not used for prolonged periods, often creating mineral deposits on internal parts that may lead to supercharger lock-up, particularly if the watercraft has been used in salt water. At the end of each day's use, oil the supercharger to prevent the formation of mineral deposits (see the Supercharger section in the MAINTENANCE AND ADJUSTMENT chapter).

Jet Pump Bearings/Seals

NOTICE

Major engine damage can occur if the jet pump bearings fail due to lack of maintenance or if water remains in the pump during prolonged storage and corrodes the bearings. To prevent premature jet pump bearing failure, follow the service schedule and have the bearings serviced prior to prolonged storage.

Have your Kawasaki dealer inspect the jet pump bearings and seals after the first 25 hours of use or one year, whichever comes first; and then every 50 hours or every year, whichever comes first. The jet pump bearings should also be serviced before any prolonged storage to prevent any water that may be left in the pump from corroding the bearings and causing premature failure.

Cleaning

- Wash the exterior and dry it thoroughly.

NOTICE

Harsh cleaning solvents may attack the surface or smear the colors. To preserve the finish, use only a mild detergent in water to wash the watercraft.

- Lightly spray all exposed metal parts with a penetrating rust inhibitor, such as WD40 or BEL-RAY 6 in 1 to prevent corrosion.

- Remove the seats, or block up with 10 mm (one half inch) spacers to insure adequate ventilation and prevent condensation from forming.
- Cover the watercraft and store it in a clean, dry place.

NOTICE

Water left in the footwells can cause the paint to bubble and peel, and the mat to peel off the deck. Do not allow water to collect in the footwells during storage. If the watercraft is left outside, even covered, water can collect in the footwells on either side of the seat. If the watercraft is left on a trailer, raise the trailer tongue so that water cannot accumulate in the footwells.

Semi-gloss Finish

To clean the semi-gloss finish:

- When washing the watercraft, always use a mild neutral detergent and water.
- The semi-gloss finish effect may be lost if the finish is excessively rubbed.
- If in any doubt, consult an authorized Kawasaki dealer.

Lubrication

- Carry out all recommended lubrication procedures (see the Lubrication section in the MAINTENANCE AND ADJUSTMENTS chapter).

Removal from Storage

The following procedure explains the steps necessary to put the watercraft back in service following a storage period. See your Kawasaki JET SKI watercraft dealer for this service, or do the following. See the MAINTENANCE AND ADJUSTMENTS chapter for detailed procedures.

- Carry out all recommended lubrication procedures (see the Lubrication section).
- Check for binding or sticking throttle, steering or shift mechanism. The throttle lever must return fully when released.
- Check the spark plugs (see the Spark Plugs section).
- Check all rubber hoses for weathering, cracking, or looseness.
- Put the shift lever in the “R (Reverse)” position. Check cooling and bilge hoses for weathering, cracking or looseness.
- Check that the drain screws in the stern are securely tightened.
- Clean the battery terminals and charge if necessary. Install the battery (see the Battery section).
- Check the fire extinguisher for a full charge.
- Fill the fuel tank with fuel and close the filler cap securely.

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WARNING

Gasoline is extremely flammable and can be explosive under certain conditions. To avoid a possible fire or explosion, pull the lanyard key off the stop button. 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.

- After transporting or refueling and before starting the engine, open the front storage case lid and remove the seats for several minutes to ventilate the engine compartment.

WARNING

A concentration of gasoline fumes in the engine compartment can cause a fire or explosion. To prevent a fire or explosion, remove the seat to vent the engine compartment.

- Check for fuel leaks. Repair if necessary.
- Check the engine oil level. Fill with specified oil if necessary.

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.

- Start the engine and run it for 15 seconds. Check for fuel, oil and exhaust leaks. Any leaks must be repaired.

NOTICE

To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

- Install the seats, making sure that they are locked in place.

MAINTENANCE AND ADJUSTMENTS

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

With a basic knowledge of mechanics and the proper use of tools, you should be able to carry out many of the maintenance items described in this chapter. If you lack proper experience or doubt your ability, all adjustments, maintenance, and repair work should be completed by a qualified technician.

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

EMISSION CONTROL INFORMATION

To protect the environment in which we all live, Kawasaki has incorporated crankcase emission (1) , exhaust emission (2), evaporative emission (3) control systems in compliance with applicable regulations of the United States Environmental Protection Agency and California Air Resources Board.

1. Crankcase Emission Control System

This system eliminates the release of crankcase vapors into the atmosphere. Instead, the vapors are routed through a breather chamber to the intake side of the engine. While the engine is operating, the vapors are drawn into the combustion chamber, where they are burned along with the fuel and air supplied by the fuel injection system.

2. Exhaust Emission Control System

This system reduces the amount of pollutants discharged into the atmosphere by the exhaust of this engine. The fuel, ignition and exhaust systems of this engine have been carefully designed and constructed to ensure an efficient engine with low exhaust pollutant levels.

3. Evaporative Emission Control System

The evaporative emission control system for this watercraft consists of low permeation fuel hoses and a fuel tank.

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Fuel Information

THIS ENGINE IS CERTIFIED TO OPERATE ON UNLEADED GASOLINE ONLY.

A minimum of 90 octane of the antiknock index is recommended. The antiknock index is posted on service station pumps in the U.S.A.

Maintenance and Warranty

Proper maintenance is necessary to ensure continued low emission levels on your watercraft. This Owner's Manual contains those maintenance recommendations for your engine. Those items identified by the Periodic Maintenance Chart are necessary to ensure compliance with the applicable standards.

As the owner of the Personal Watercraft, you have the responsibility to make sure that the recommended maintenance is carried out according to the instructions in this Owner's Manual at your own expense.

The Kawasaki Limited Emission Control System Warranty requires that you return your Personal Watercraft to an authorized Kawasaki Personal Watercraft dealer for remedy under warranty. Please read the warranty carefully, and keep it valid by complying with the owner's obligations it contains.

Tampering with Emission Control System Prohibited

Federal law prohibits the following acts or the causing thereof: (1) the removal or rendering inoperative by any person other than for purposes of maintenance, repair, or replacement, of any device or element of design incorporated into any new engine for the purposes of emission control prior to its sale or delivery to the ultimate purchaser or while it is in use, or (2) the use of the engine after such device or element of design has been removed or rendered inoperative by any person.

Among those acts presumed to constitute tampering are the acts listed below:

Do not tamper with the original emission related parts.

- * Electronic Control Unit
- * Fuel Pump
- * Spark Plugs
- * Fuel Injectors
- * Supercharger with intercooler & relief-valves
- * Throttle Body

Periodic Maintenance Chart

NOTE

Complete the Pre-Ride Checklist before each outing.

Description	Frequency	Initial 10 Hours	Every 25 Hours	Every 50 Hours	Every 100 Hours
* Inspect supercharger drive belt for wear/damage		•	•		
* Apply corrosion protection coating to the supercharger rotors		Every ride			
Inspect all hoses, hose clamps, nuts, bolts, and fasteners		•	•		
* Lube jet pump bearings and seals; inspect and replace bearings/seals if necessary		Initial 25 hours or one year whichever comes first, then every 50 hours or every year whichever comes first			
Lubricate throttle body cable fitting at throttle body			•		
Lubricate throttle control cable and throttle cable fitting at throttle case			•		
○ Inspect spark plugs (replace if necessary)			•		
Lubricate steering cable/shift cable ball joints and steering nozzle/reverse bucket pivots			•		
* Lubricate handlebar pivot (disassemble)			•		
○* Clean fuel pump screen			•		

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Description	Frequency	Initial 10 Hours	Every 25 Hours	Every 50 Hours	Every 100 Hours
○ * Inspect/adjust valve clearances					●
Inspect/clean air filter drain caps			●		
Replace engine oil			● (or every year)		
Replace engine oil filter					●
* Inspect/tighten engine mount bolts				● (or every year)	
* Inspect fuel vent check valve			●		
○ Inspect throttle control system			●		
Flush bilge line and filter			●		
Flush cooling system (after each use in salt water)			●		
* Inspect impeller blades for damage (remove)					●
* Inspect/replace coupling damper					●
○ * Inspect throttle shaft spring (replace throttle body if necessary)					●
* Inspect steering cable/shift cable					●
Inspect hull drain screws (replace if necessary)				●	
Inspect battery terminals and charging condition			●		

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Description	Frequency	Initial 10 Hours	Every 25 Hours	Every 50 Hours	Every 100 Hours
* Replace fuel hoses		Every 5 years			
* Inspect exhaust filter and replace if damaged or corroded			●		

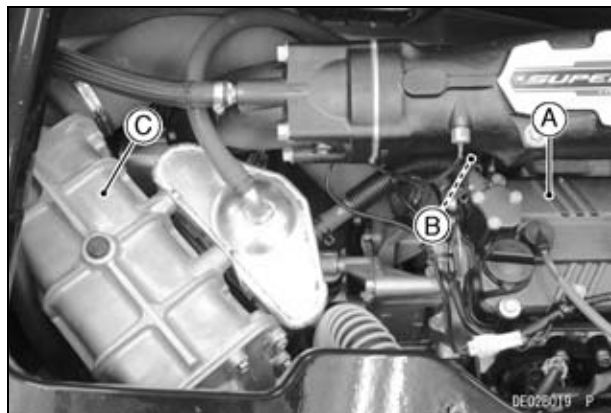
*: These items must be performed with the proper tools. See an authorized Kawasaki JET SKI watercraft dealer for service, unless you have the proper equipment and mechanical proficiency.

○: Emission Related

Supercharger

This watercraft is equipped with a supercharger and its intercooler, which play an essential role for high engine performance.

Have your authorized dealer service them in accordance with the Maintenance Chart and Preparation for Storage.



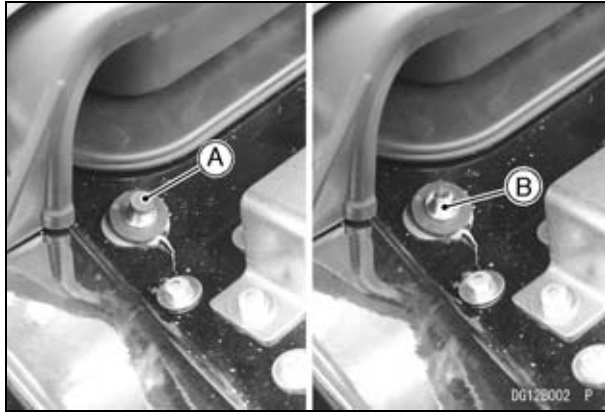
A. Engine
B. Supercharger
C. Intercooler

NOTICE

Moisture in the air drawn through the supercharger during use can condense after the engine is stopped and not used for prolonged periods, often creating mineral deposits on internal parts that may lead to supercharger lock-up, particularly if the watercraft has been used in salt water. At the end of each day's use, oil the supercharger to prevent the formation of mineral deposits.

Supercharger Lubrication

- Remove the front seat (see Seat Latches section in the GENERAL INFORMATION chapter).
- Remove the filler opening cap.
- Start the engine and run it at idle speed.
- Apply commercially available fogging oil to the supercharger from the filler opening for 10 seconds.
- Stop the engine.
- Install the removed parts.



A. Cap
B. Filler Opening

NOTICE

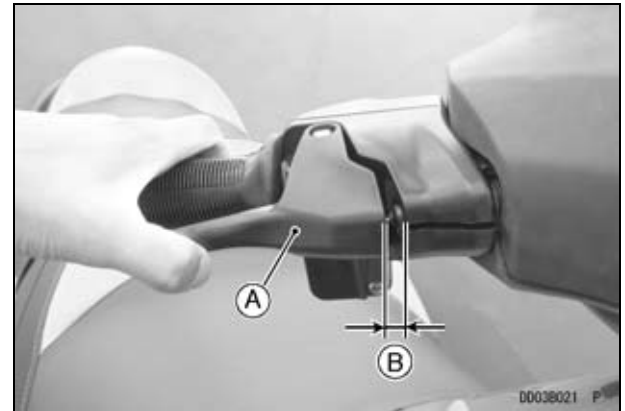
To prevent overheating resulting in engine and exhaust system damage, do not run the engine with the watercraft out of the water for more than 15 seconds at a time. Never operate the engine at maximum speed out of the water.

Control Cables

Throttle Cable Play Inspection

There must be play in the throttle mechanism.

- Measure the distance the throttle lever moves before the engine begins to pick up speed. Play should be about 2 mm (0.08 in.).
- If there is improper play, adjust it.



A. Throttle Lever
B. about 2 mm (0.08 in.)

Throttle Cable Play Adjustment

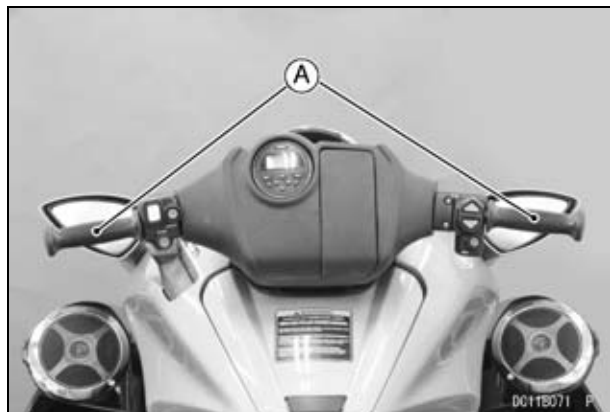
This watercraft is equipped with an electronic throttle valve.

Adjustment should be done by your authorized Kawasaki JET SKI watercraft dealer.

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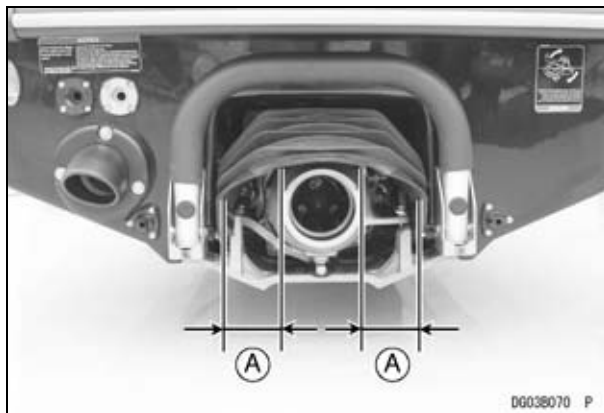
Steering Cable Adjustment

- Center the handlebars in a straight ahead steering position.



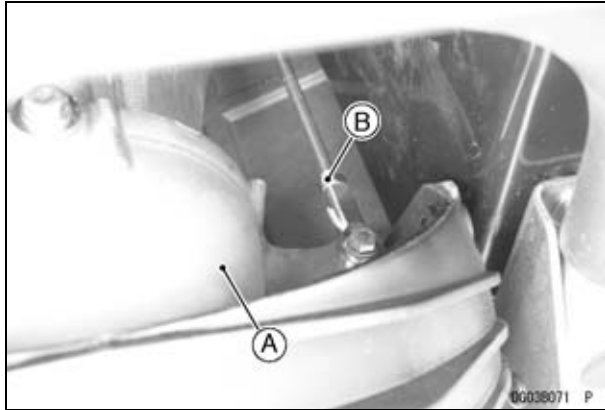
A. Handlebars

- Check that the steering nozzle at the same distance from each side of the reverse bucket bracket.



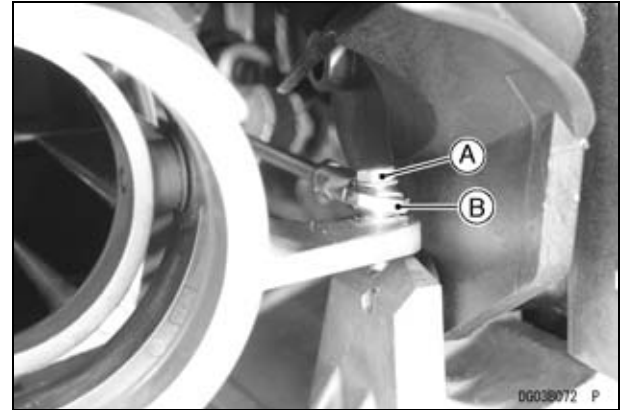
A. Equal

- If it is not, adjust the steering cable.
- Put the shift lever in the “R (reverse)” position.
- Loosen the locknut on the end of the steering cable located to the right of the steering nozzle.



A. Steering Nozzle
B. Locknut

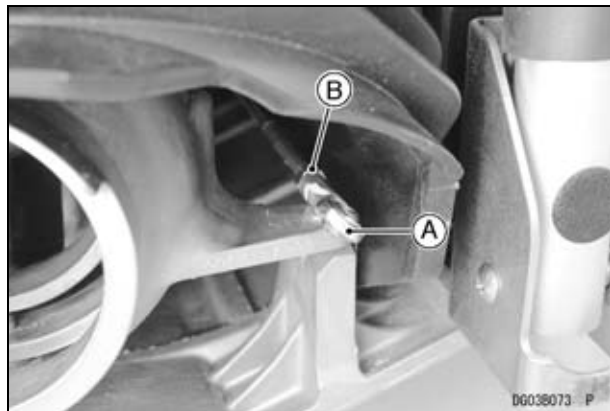
- Put the shift lever in the “F (Forward)” position.
- Remove the bolt and disconnect the cable joint from the steering nozzle.



A. Bolt
B. Joint

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- Center the handlebars in a straight ahead steering position.
- Turn the joint on the cable to adjust the steering.



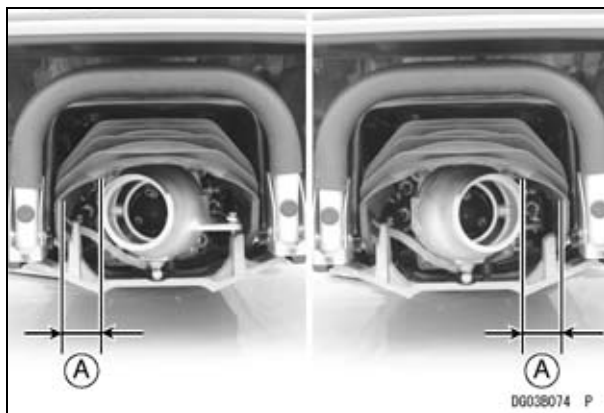
A. Joint
B. Locknut

- Reattach the joint and check cable adjustment again.
- Apply non-permanent locking agent to the bolt. And tighten the joint bolt and the locknut securely.

Bolt Tightening Torque:

9.8 N·m (1.0 kgf·m, 87 in·lb)

- As an additional check, turn the handlebar all the way to the left and right, and measure the distance between the nozzle and the edge of the reverse bucket bracket. It should be equal at both extremes.



A. Equal

Steering Cable Inspection

Steering cable inspection is best performed by an authorized Kawasaki JET SKI watercraft dealer. If the steering feels rough or “catchy”, have your dealer inspect the steering cable.

NOTE

○ *The steering cable is sealed at each end and does not require lubrication.*

Trim-control Cable Inspection

Trim-control cable inspection is best performed by your authorized Kawasaki JET SKI watercraft dealer. If the steering feels rough or “catchy”, have your dealer inspect the trim-control cable.

NOTE

- The trim-control cable is sealed at each end and does not require lubrication.

Trim-control Cable Adjustment

Trim-control cable adjustment should be done by your authorized Kawasaki JET SKI watercraft dealer.

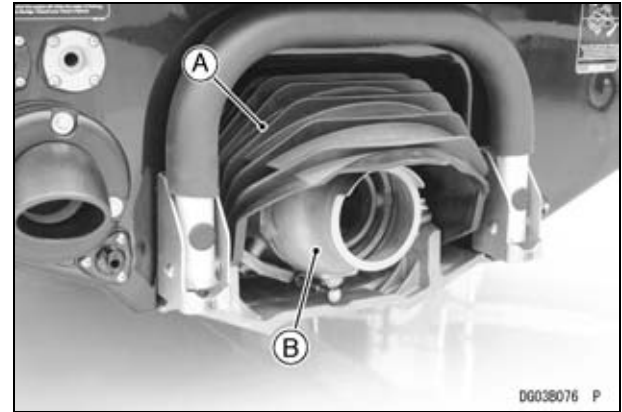
Shift Cable Adjustment

- Put the shift lever in the “F (Forward)” position.



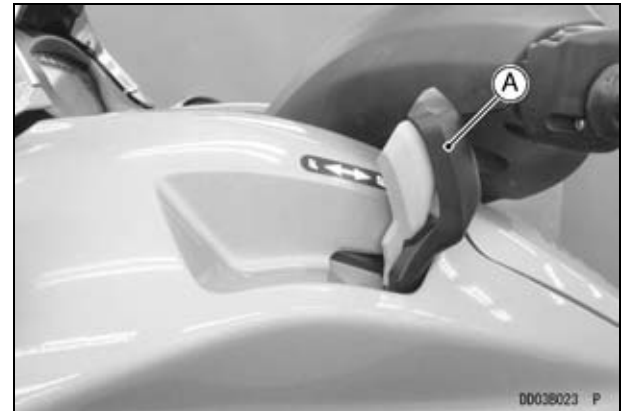
A. Shift Lever (“F” position)

- The lower edge of the bucket should be held above the top of the steering nozzle with slight play so it doesn’t interfere with the water flow from the jet pump.



**A. Reverse Bucket
B. Steering Nozzle**

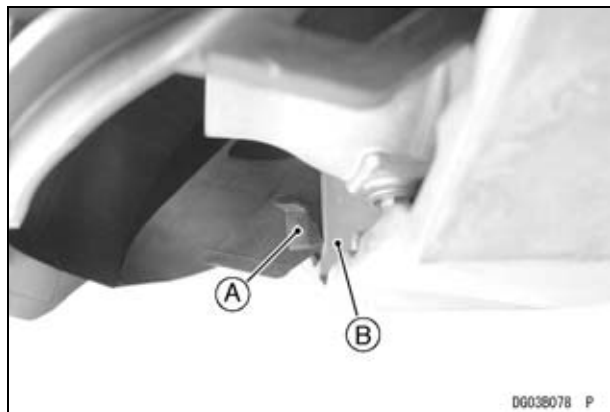
- Put the shift lever in the “R (Reverse)” position.



A. Shift Lever (“R” position)

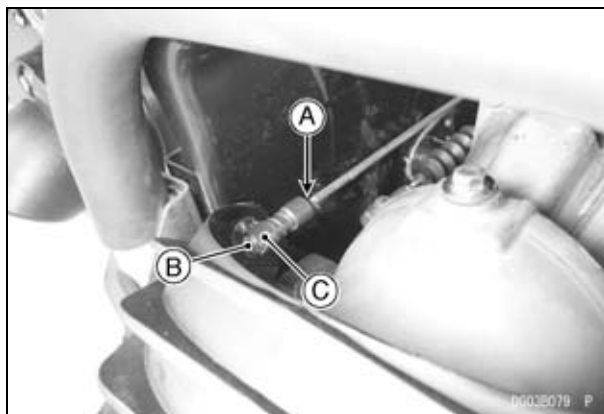
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- The lower stopper on the bucket should rest against the rear edge of the pump cover.



A. Stopper
B. Pump Cover End

- If either position is incorrect, adjust the shift cable.
- Put the shift lever in the "R (Reverse)" position.
- Loosen the locknut on the end of the shift link.

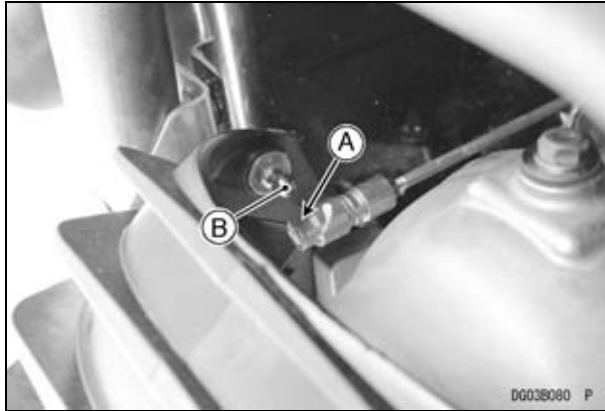


A. Locknut
B. Ball Joint
C. Sleeve

- Slide back the outer sleeve and take the ball joint off the ball.
- Turn the ball joint and reattach it so the lower edge of the bucket is held above the top of the nozzle allowing the bucket to have 2 ~ 3 mm (0.08 ~ 0.12 in.) of play when the shift lever is put in the "F" position.

NOTE

- *The cable end must remain screwed into the rod more than 5 mm after the above adjustment.*



- A. Hole**
B. Ball

- Check the adjustment again.
- When adjustment is correct, tighten the locknut.

Shift Cable Inspection

Shift cable inspection is best performed by your authorized Kawasaki JET SKI watercraft dealer. If the shift lever feels rough or “catchy”, have your dealer inspect the shift cable.

NOTE

- *The shift cable is sealed at each end and does not require lubrication.*

Fuel System

Throttle Adjustments

Idle Speed

Idle speed adjustment is best performed by your authorized Kawasaki JET SKI watercraft dealer. If the idle speed is unstable have your dealer inspect the throttle body.

Idle Speed

- 1 300 ±100 rpm - in water
- 1 300 ±100 rpm - out of water

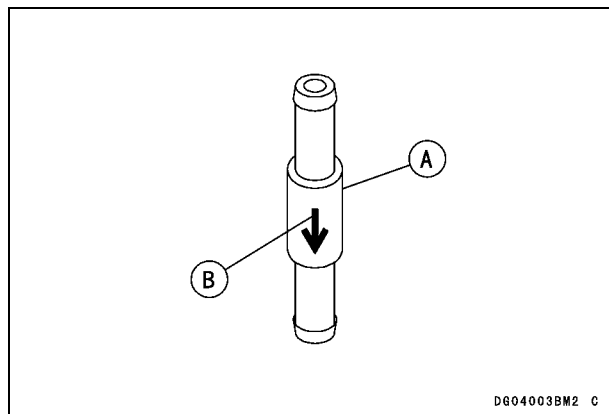
High Altitude Use

High altitude adjustment is not required as the E.C.U. (electronic engine control unit) controls the air/fuel mixture automatically.

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Fuel Vent Check Valve

The fuel tank is equipped with a vent hose. A small plastic check valve mounted in the vent hose allows air to enter the tank, but minimizes fuel spillage when the craft is tipped over. Have the check valve inspected in accordance with the **Periodic Maintenance Chart** by your authorized Kawasaki JET SKI watercraft dealer.



- A. Check Valve
- B. Flow Direction

Fuel Pump Screen

The watercraft fuel pump is equipped with fuel pump screens to prevent dirt or other foreign from entering the fuel line.

Have your Kawasaki JET SKI watercraft dealer clean the fuel pump screen in accordance with the **Periodic Maintenance Chart**.

Fuel Hose

The rubber fuel hose deteriorates over time. Before boarding the watercraft, before prolonged storage and after prolonged storage, have your authorized JET SKI watercraft dealer check the fuel system.

⚠ WARNING

Fuel is extremely flammable and can cause fire or explosion under certain conditions. The fuel hose is always under high pressure while the watercraft is in operation. If there is a crack in the hose due to deterioration or if there is a loose hose connection, gasoline may gush out, resulting in a fire or explosion. Do not start the engine if the hose is damaged or loose.

Engine Oil

In order for the engine to function properly, maintain the engine oil at the proper level, and change the oil and replace the 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.

Oil Requirements

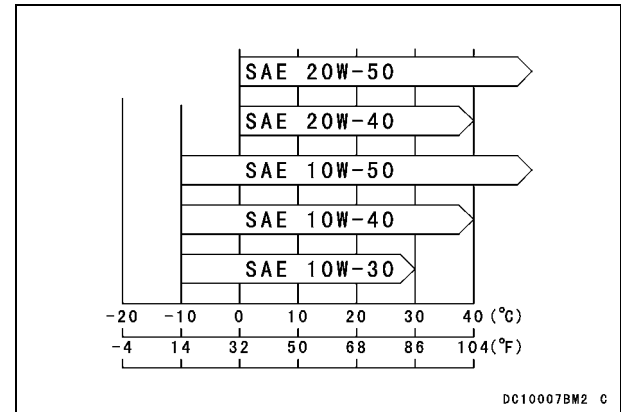
Type:	Kawasaki Performance 4-Stroke JET SKI® Watercraft Oil* Kawasaki Performance 4-Stroke Semi-Synthetic Oil* Kawasaki Performance 4-Stroke Full Synthetic Oil* or other 4-stroke oils with API SG, SH, SJ, SL, SM and JASO MA, MA1, MA2 rating
Viscosity:	SAE10W-40
Capacity:	4.5 L (4.8 US qt) when oil and/or filter is changed. 5.5 L (5.8 US qt) when engine is completely dry.

*Kawasaki Performance Oils and Lubricants have been specifically engineered for your vehicle. Consistent use of these products meets or exceeds warranty and service requirements and can help to extend the life of your Kawasaki engine.

NOTE

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

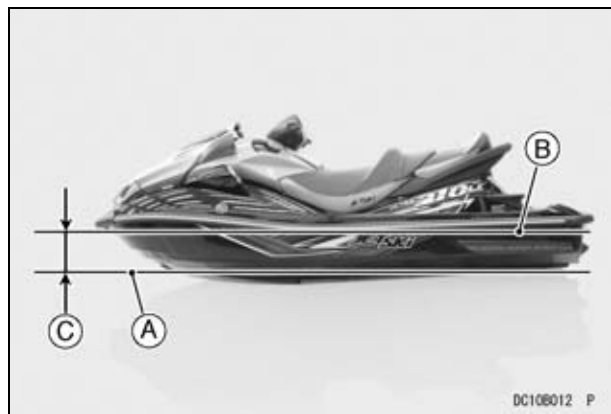
Although 10W-40 engine oil is the recommended oil for most conditions, the oil viscosity may need to be changed to accommodate atmospheric conditions in your riding area.



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Oil Level Inspection

- Check the engine oil level each day before operating your watercraft and add oil if necessary. Refer to the Pre-Ride Check List in the Operating Instruction chapter.
- Whenever you check the oil level, keep your watercraft level side to side and fore to aft as much as possible.

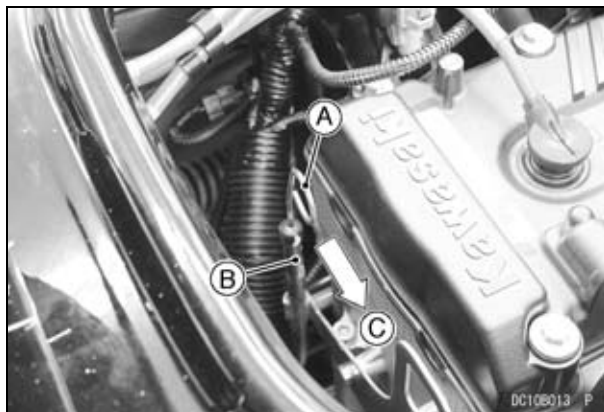


- A. Level Ground
- B. Side Bumper
- C. Parallel

- Remove the dipstick, wipe it dry and insert it back into the dipstick tube so that the finger grip is positioned toward the left side of the hull, and then remove it again to check the oil level.

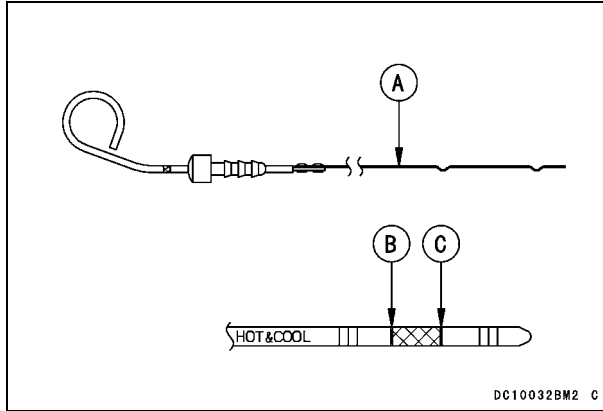
NOTE

- An accurate oil level cannot be obtained if the dipstick is not installed in the correct direction.



- A. Dipstick
- B. Dipstick Tube
- C. Left side

- The oil level must be between the “H” (High) and “L” (Low) level on the stick.



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

- If the oil level is too low, add oil up to the Low Level. Use the same type and brand of oil that is already in the engine.

NOTICE

Do not allow dirt or foreign materials to enter the engine as they can cause serious engine damage.

Oil Change

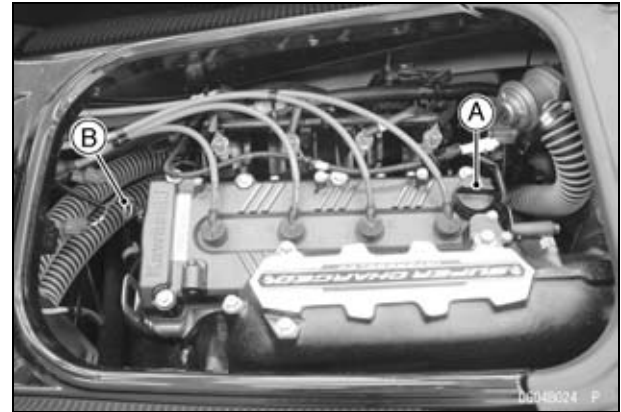
In accordance with the Maintenance Chart, change the engine oil as follows:

- Level the watercraft port to starboard as well as fore to aft.
- In a well-ventilated area, start the engine while flushing the cooling system.

NOTICE

The engine must be running before the water is turned on and the water must be turned off before the engine is stopped. Do not run the engine without cooling water flow for more than 15 seconds.

- Warm up the engine and stop it.
- Remove the oil filler cap and the dipstick.



- A. Oil Filler Cap
- B. Dipstick

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NOTICE

Do not allow dirt or foreign materials to enter the engine as they can cause serious engine damage.

- Drain the oil thoroughly from the dipstick tube using a commercially-available vacuum pump.



WARNING

Used engine oil is toxic and pollutes the environment. To protect the environment, do not discard used engine oil; always return it to an authorized recycling center.

- Fill the oil up to the “H” (High) level on the dipstick.

NOTE

- *Be careful not to overfill. If you have overfilled, remove the excess oil.*
- Install the oil filler cap and dipstick securely.
- Run the engine for several minutes while flushing the cooling system (see the Cooling System Flushing section).



WARNING

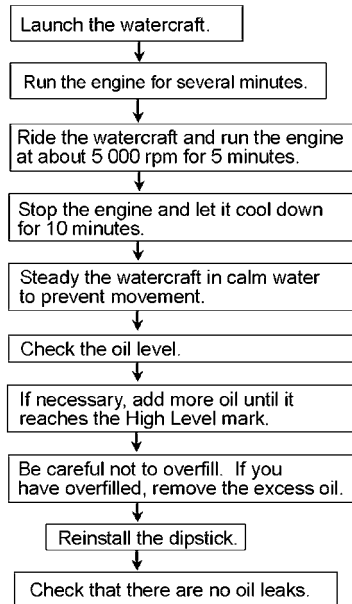
If the water is turned on before the engine is running, water may flow back through the exhaust pipe and into the engine, causing severe engine damage. To prevent engine damage, be sure the engine is running before turning the water on.

- The oil level must be between the “H” (High) and “L” (Low) level again on the stick.
- Check that there are no oil leaks in the engine compartment.

NOTE

- *This procedure requires mechanical skills and tools. If it is beyond your capability, ask your Kawasaki dealer for the service.*
- *The oil filter replacement ask your Kawasaki dealer.*

After filling with oil, measure the oil level carefully as follows:



NOTE

- Since the trim and list of the watercraft will significantly affect the oil level, be sure that the operator and/or cargo are not aboard the watercraft when measuring the oil level. Also fill up the fuel tank if it is not full.
- This measuring procedure with the watercraft afloat should be followed if the oil level needs to be topped up.

Valve Clearance

Valve and valve seat wear decreasing valve clearances, and upsetting valve timing.

NOTICE

If valve clearance is left unadjusted, wear will eventually cause the valves to remain partially open, which lowers performance, burns the valves and valve seats, and may cause serious engine damage. To maintain performance and prevent engine damage, have the valve clearance checked according to the periodic maintenance chart.

- 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 JET SKI watercraft dealer.

Valve Clearance

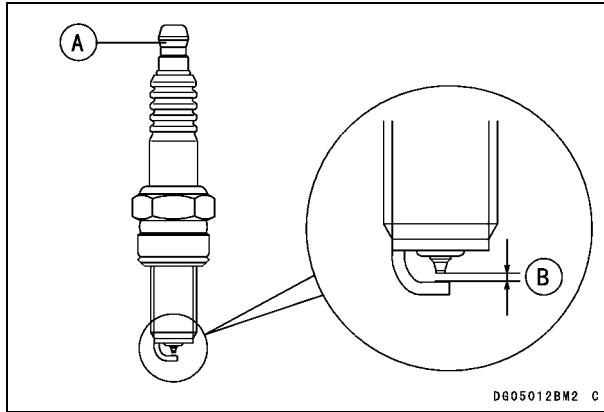
INTAKE	0.15 ~ 0.24 mm (0.0059 ~ 0.0094 in.)
EXHAUST	0.47 ~ 0.55 mm (0.0185 ~ 0.0217 in.)

Spark Plugs

Since the engine is water-cooled and is generally operated at a constant throttle opening, cylinder head temperature is relatively stable. For this reason, if the engine is in good condition and properly tuned, it should not be necessary to use a spark plug of a different heat range. Since a spark plug of the wrong heat range can cause extensive engine damage, only the standard spark plug is recommended.

Standard Spark Plug

Standard Plug:	NGK PMR9B
Terminal:	Solid Post terminal
Plug Gap:	0.6 ~ 0.7 mm (0.024 ~ 0.028 in.)
Tightening Torque:	13 N·m (1.3 kgf·m, 115 in·lb)



A. Terminal (Solid Post)
B. Plug Gap

Spark Plug Inspection and Replacement

- Remove the spark plugs and inspect the ceramic insulators. The appearance of the insulators reflects the efficiency of the combustion process. When the engine is operating properly, the plug insulators should be clean and a light brown color. If the insulators look glazed or very white, if the electrodes appear overheated, or if there are gray metallic deposits on the plugs, combustion chamber temperatures are too high. Inspection should be done by an authorized Kawasaki JET SKI watercraft dealer.

NOTICE

Excessive operating temperature can cause serious engine damage. To prevent engine damage, the cause for any excessive operating temperature should be located and corrected immediately.

- A dry, sooty black deposit on the insulators indicates an overly rich fuel/air mixture. Check for correct throttle control cable adjustment. Inspection should be done by an authorized Kawasaki JET SKI watercraft dealer.
- Inspect the condition of the spark plug. If the spark plug electrodes are rounded, damaged, the carbon is accumulated or the insulator is cracked, replace the plug.
- Measure the spark plug gap. Use a wire-type thickness gauge to prevent possible damage to the electrode.

NOTICE

Do not adjust the plug gap. If the plug gap is out of the specification, replace the spark plug.

Spark Plug Fitting

- Insert the plugs into the plug holes.
- Tighten the plugs to the specific torque.

Tightening Torque:

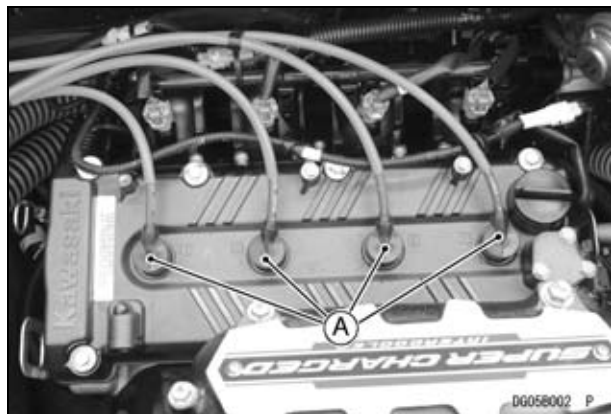
13 N·m (1.3 kgf·m, 115 in·lb)

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- Install the spark plug caps onto the spark plugs securely.

NOTE

- *Be sure to install the plug caps so that the spark plug wires are at a right angle to the engine center line.*



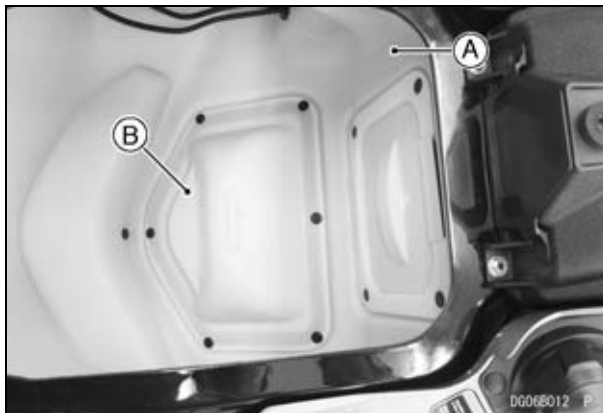
A. Spark Plug Caps

- Pull the caps lightly to make sure they are firmly in place.

Battery

The battery is located in the front storage compartment.

- Remove the battery recess cover in the front storage compartment.



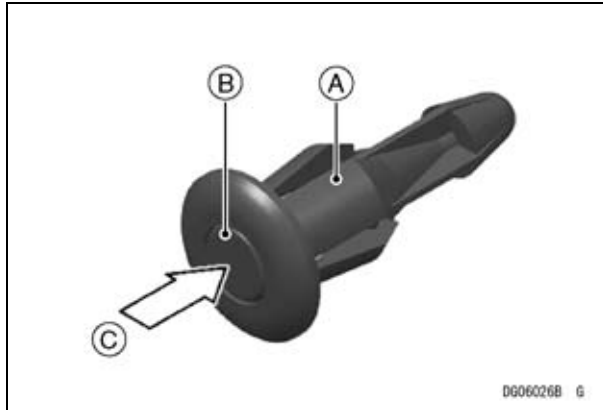
A. Front Storage Compartment

B. Battery Recess Cover

NOTE

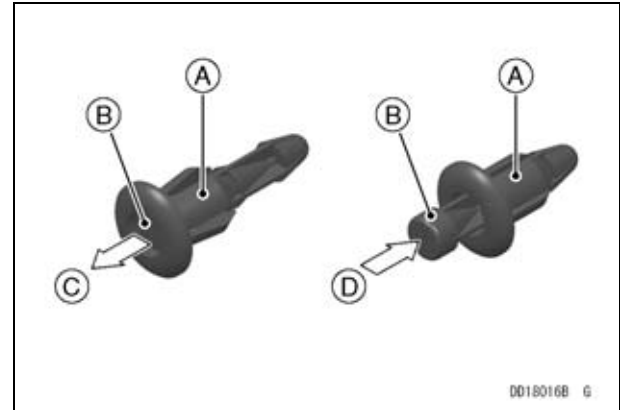
- *The battery recess cover uses quick rivets. The quick rivets can be removed by pushing the central pins into the quick rivets. When installing them, pull the central pins fully up first, and then push them in after inserting the rivets.*

Quick Rivet Removal



- A. Quick Rivet**
- B. Central Pin**
- C. Push in**

Quick Rivet Installation



- A. Quick Rivet**
- B. Central Pin**
- C. Pull up fully.**
- D. Push in**

The battery installed in this watercraft is a sealed type, and the sealing strip should not be removed at any time after the specified electrolyte has been installed in the battery for initial service. It is not necessary to check the battery electrolyte level or add distilled water.

DANGER

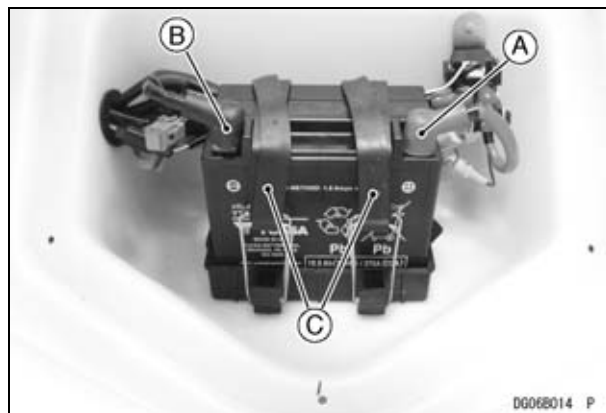
- Battery acid generates hydrogen gas which is flammable and explosive under certain conditions. It is present within a battery at all times, even in a discharged condition. Keep all flames and sparks (cigarettes) away from the battery.
- Wear eye protection when working with a battery. In the event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

NOTICE

Removing the sealed cap can damage the battery. To avoid damaging the battery, never remove the sealed cap. Using a conventional battery in this watercraft will cause the electrical system to malfunction. Do not install a conventional battery.

Make	Yuasa Battery
Type	YTX20L-BS

Battery Removal

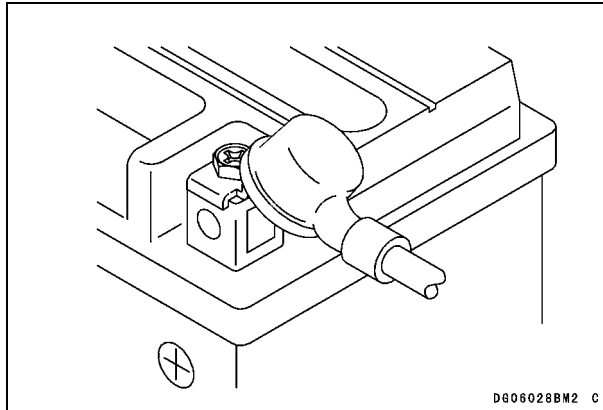


- A. Positive Cable (Red)
- B. Negative Cable (Black)
- C. Straps

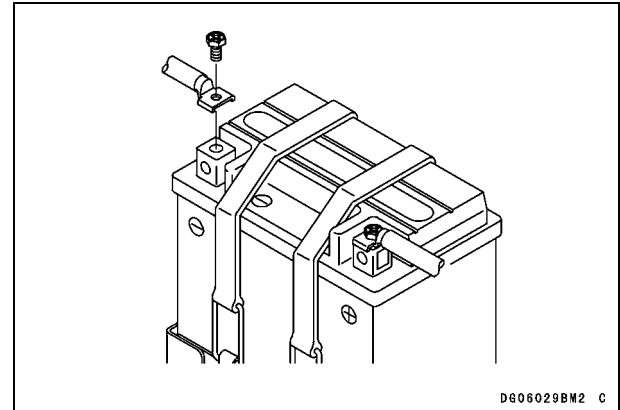
Battery Cable Removal

- Be sure to remove the ignition key from the hull before starting this procedure.

(1) Slide the rubber cap.



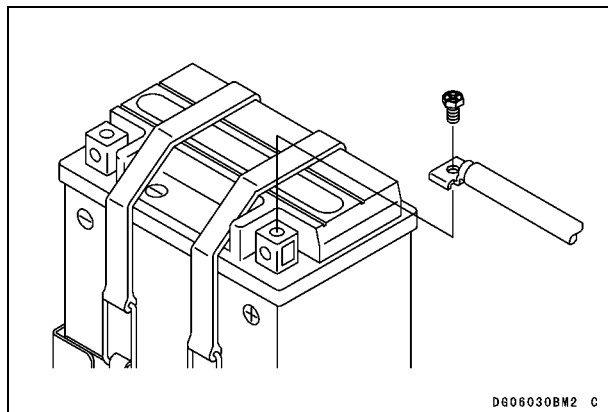
(2) Negative cable removal



- First, disconnect the negative cable from the battery.

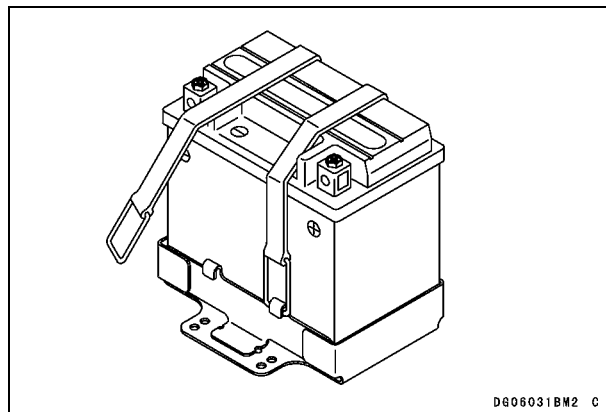
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(3) Positive cable removal



- Next, disconnect the positive cable from the battery.

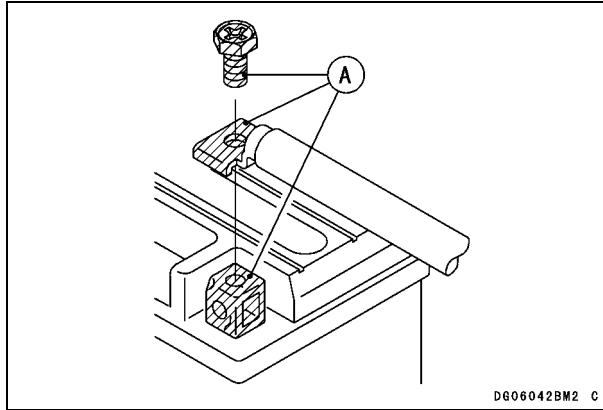
(4) Battery Removal



- Release the tags of the hold-down straps from the hooks.

Battery Inspection and Maintenance

(1) Battery terminal oxidation/corrosion (coated with patina/white powder)

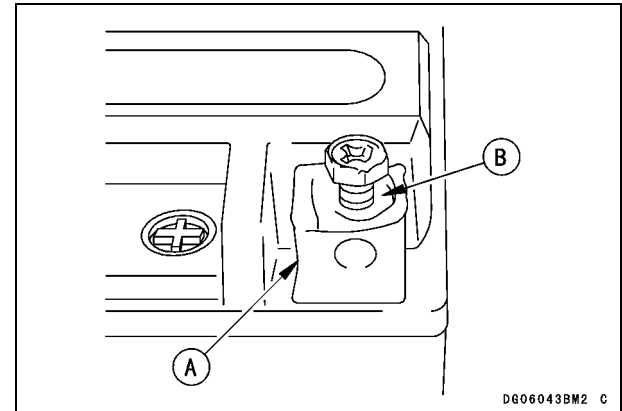


A. Oxidation/Corrosion

<Cleaning>

1. Apply a penetrating lubricating spray.
2. Leave it for five minutes.
3. Wipe off with a cloth or polish with a fine emery cloth or wire brush.

(2) Battery terminal damage (deformation, cracks, dents)



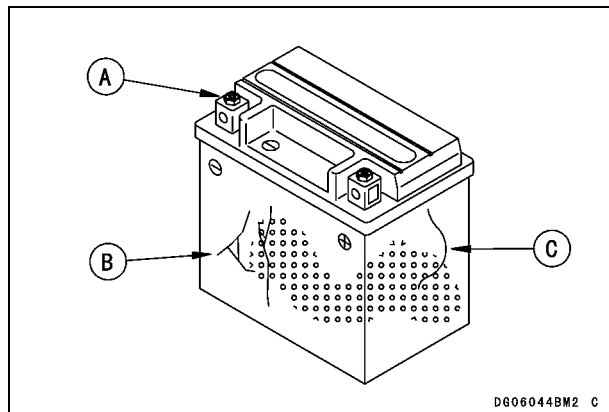
A. Deformation

B. Dents

- If there are any deformation, cracks, or dents, replace the battery.

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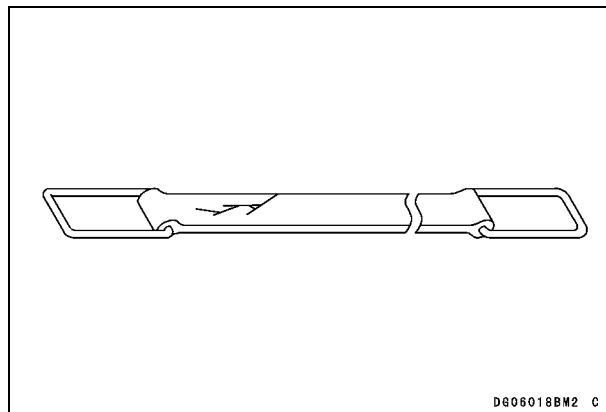
(3) Battery inspection



- A. Loose**
- B. Cracks**
- C. Deformation**

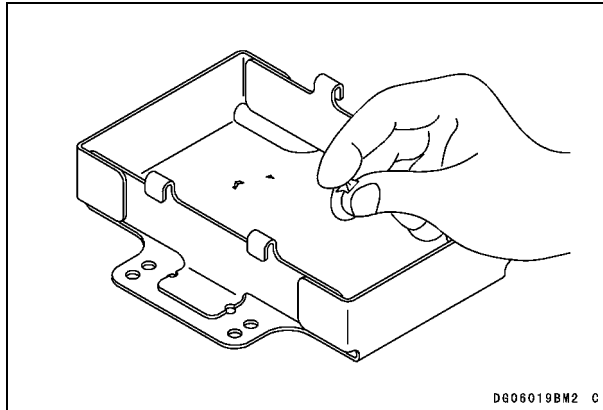
- Check the battery for deformation or cracks.

(4) Hold-down strap inspection



- Check the hold-down strap for deterioration such as cutting, cracking, or looseness.

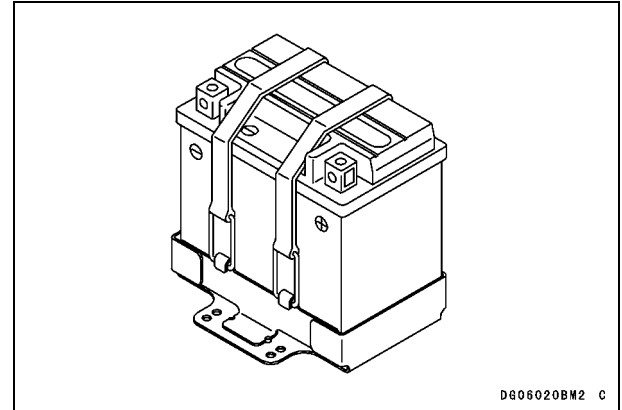
(5) Battery tray cleaning



- Inspect the battery tray and remove dust.

Battery Installation

1. Battery installation and fixation



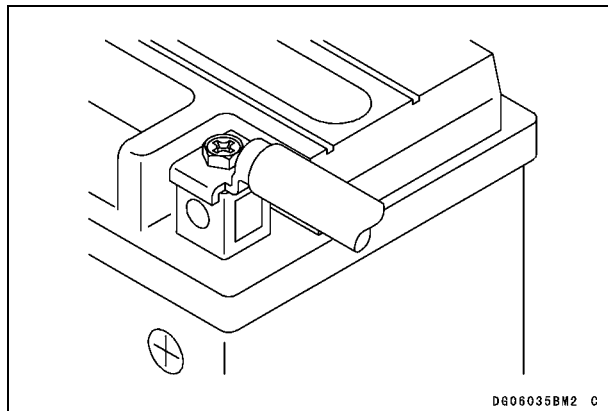
- Secure the battery with the straps and make sure that it is firmly fixed.

2. Cable connection

- Connect the positive cable to the battery first.

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(1) Temporal Tightening



- Pay attention to the cable terminal direction and connect the cable so that the battery terminal and cable terminal are in close contact.

NOTICE

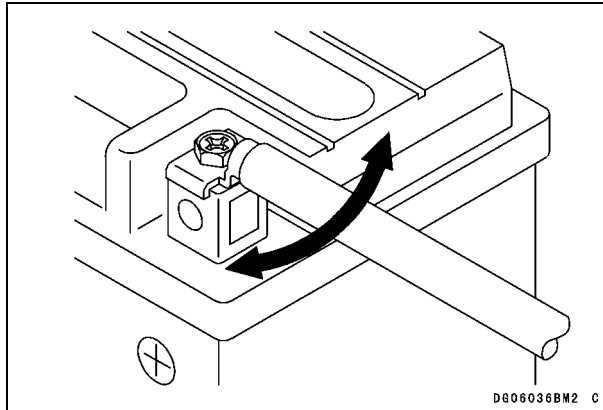
Reversing the battery connections will damage the electrical system. To prevent damage, be sure the battery connections are correct.

(2) Tightening



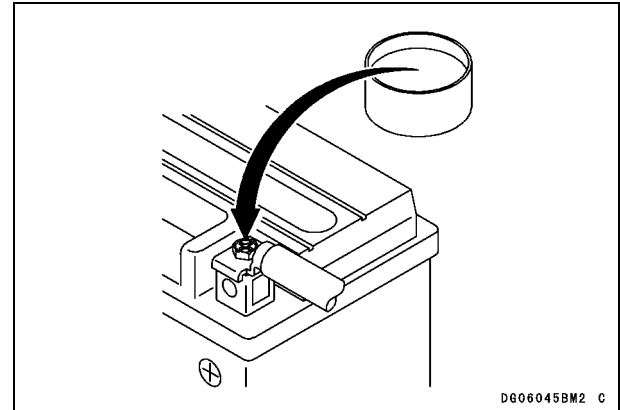
- Tighten the terminal screws securely with a wrench.
- Tighten the positive terminal first, then tighten the negative terminal.

(3) Confirmation of battery cable fixation



- After tightening both terminals securely, move the cable terminals from side to side and make sure that the cables are fixed and do not move.

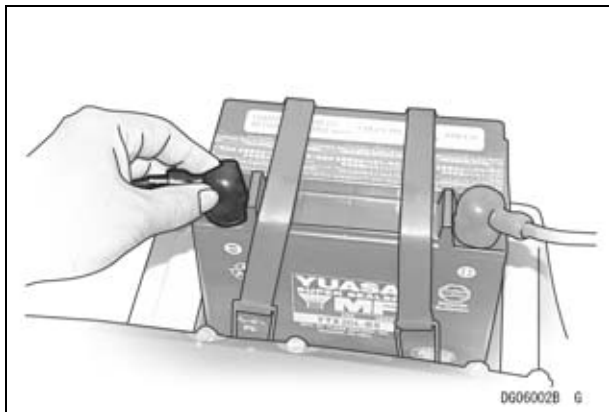
(4) Anticorrosive treatment



- Apply a grease or a penetrant lubricating spray to the terminals.

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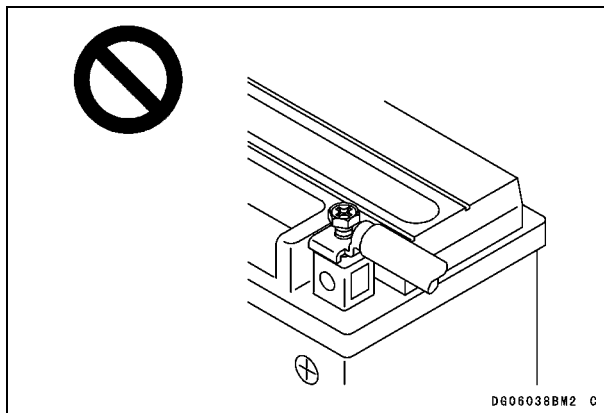
(5) Rubber cap installation



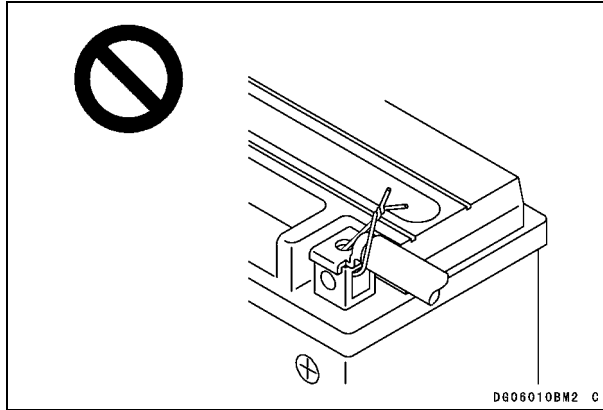
- Cover the terminal with the rubber cap completely.

Precaution for connecting the cable

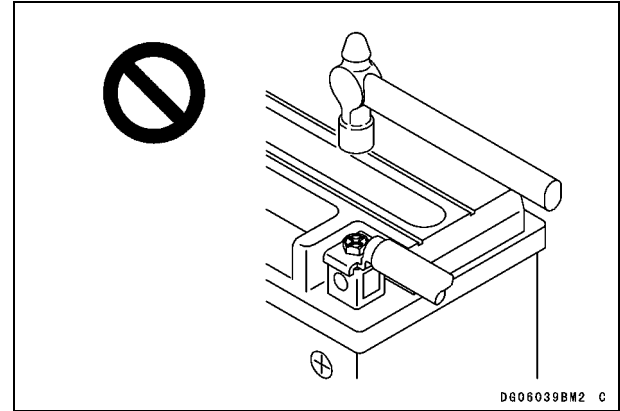
- (1) To prevent a loose cable connection, do not use a long bolt



(2) To prevent a loose electrical connection, do not use a wire.

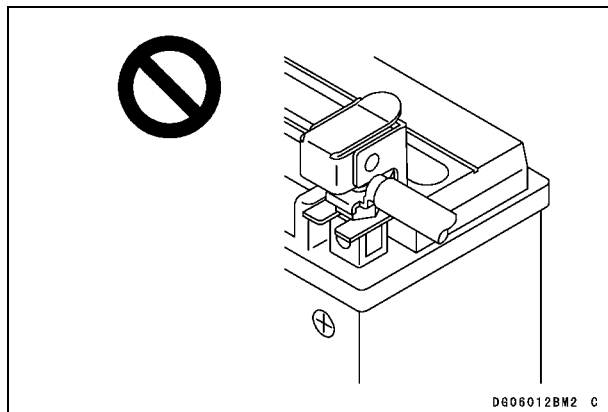


(3) To prevent the terminals being deformed or damaged, do not hit the terminals with a hammer.



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(4) To prevent the terminals from being disconnected by vibration during operation, do not use a one-touch coupler.



(5) When connecting multiple cable terminals, tighten the terminals securely so there is no clearance between the terminals.

⚠ 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.

Battery Characteristics

The battery installed in this watercraft is a sealed type and it is not necessary to check the battery electrolyte level or add distilled water. The sealing strip should not be removed after the specified electrolyte has been added to the battery during initial service.

However, in order to maximize battery life and ensure that it will provide the power needed to start your watercraft, you must properly maintain the battery's charge. When used regularly, the charging system in your watercraft helps keep the battery fully charged. If your watercraft 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 discharge rate. Every 15°C (59°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		
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 Days
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 battery can withstand sub-zero temperatures with no damage.

WARNING

Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

Battery Sulfation

A common cause of battery failure is sulfation.

Sulfation 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 charge. Battery failure due to sulfation is not warrantable.

Battery Maintenance

It is the owner's responsibility to keep the battery fully charged. Failure to do so can lead to battery failure and leave you stranded.

If you are riding your watercraft infrequently, inspect the battery voltage weekly using a voltmeter. If it drops below 12.6 volts, the battery should be charged using an appropriate charger (check with your Kawasaki dealer or visit buyKawasaki.com) at a rate (amperage × hours) that is indicated on the battery. If it is not possible to read the rate, charge the battery at an amperage that is about 1/10th of the battery capacity.

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If you will not be using your watercraft 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.

NOTE

- *Leaving the battery connected causes the electrical components (clock etc) to discharge the battery and may even over discharge it. In this case, the repair or replacement of the battery is not included in the warranty. If you will not plan to drive for four weeks or more, disconnect the battery from the vehicle.*

Kawasaki-recommended chargers are:

- **Battery Mate 150-9**
- **OptiMate 4**
- **Yuasa MB-2040/2060**
- **Christie C10122S**

If the above chargers are not available, use an equivalent one.

For more details, ask your Kawasaki dealer.

Battery Charging

- Remove the battery from the watercraft (See Battery Removal).
- Set the battery charge timer to the position indicated by the tester.
- Follow the battery charger instructions and charge the battery.

NOTICE

Removing the sealed cap can damage the battery. To avoid damaging the battery, never remove the sealed cap.

Using a conventional battery in this watercraft will cause the electrical system to malfunction. Do not install a conventional battery.

NOTE

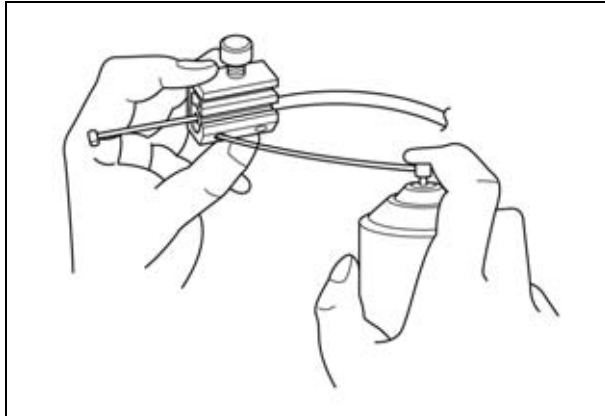
- *If you charge the sealed type battery, follow the instructions on the battery label exactly.*

Lubrication

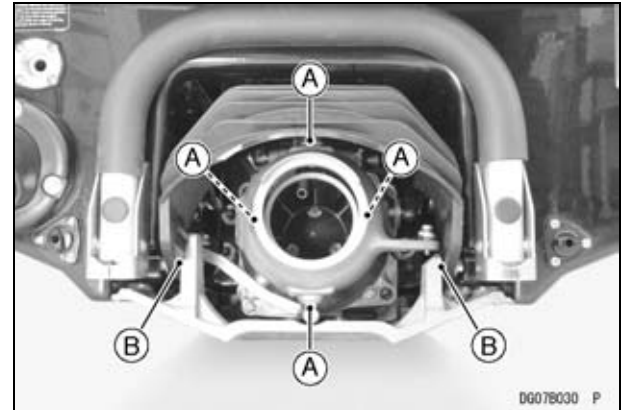
As in all marine craft, adequate lubrication and corrosion protection is an absolute necessity to provide long, reliable service. Refer to the **Periodic Maintenance Chart** and **Pre-ride Checklist** in the OPERATING INSTRUCTIONS chapter for the frequency of the following items:

- Lubricate the following with a penetrating rust inhibitor, such as WD40 or BEL-RAY 6 in 1:

Lubricate the Throttle Control Cable with a Pressure Cable Luber



Steering Nozzle/Reverse Bucket Pivots



- A. Steering Nozzle Pivot
- B. Reverse Bucket Pivot

- Lubricate the following with a high quality waterproof marine grease.

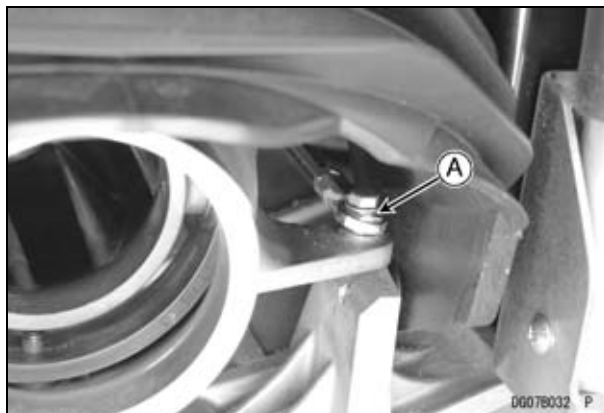
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Shift Link Ball Joint



A. Shift Link Ball Joint

Steering Link Joint



A. Steering Joint

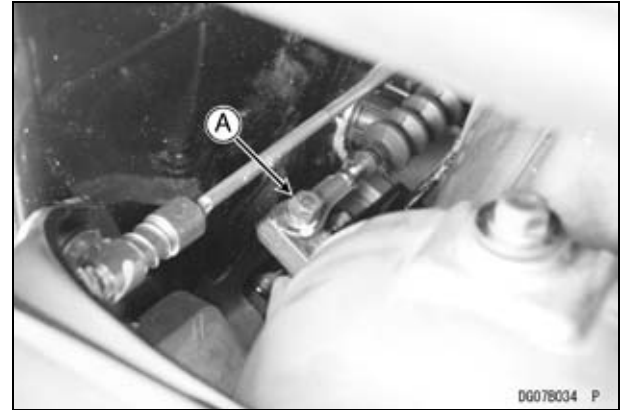
- Ask a kawasaki JET SKI watercraft dealer to carry out this work.

Trim-control Link Ball Joints



A. Trim-control Link Ball Joint

Trim-control Link Joint



A. Trim-control Link Joint

- Lubrication of the other link joints should be performed by your Kawasaki JET SKI watercraft dealer.

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Throttle Cable Fitting at Throttle Case



A. Apply grease.

NOTE

- *Disassemble and lubricate the handlebar pivot. This should be performed by your Kawasaki JET SKI watercraft dealer.*

Cooling System Flushing

To prevent major engine damage and to help prolong the life of the exhaust filter, you must perform the following procedure to expel excess water from the exhaust system. This helps prevent premature wear due to internal engine corrosion and the build up of salt or other mineral deposits that can lead to cooling system blockage and overheating. Flush the system according to the **Periodic Maintenance Chart**, after each use in salt water, or whenever there is reduced water flow from the bypass outlet on the right side of the hull.

This procedure is also used to provide auxiliary cooling when the craft is out of the water (for example during an engine oil change).

- The auxiliary water supply ports are located at the stern.

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- Switch off the engine, and remove the garden hose, reinstall the cap securely.

To flush the Intercooler Cooling System

- Connect a garden hose with a screw-in fitting to the intercooler flushing port.
- Turn on the water to flush the intercooler cooling system.

NOTE

- *When flushing the intercooler cooling system, it is not necessary to start the engine.*

Bilge System Flushing

To prevent clogging, the bilge system should be flushed out according to the **Periodic Maintenance Chart**, or whenever you suspect it is blocked.

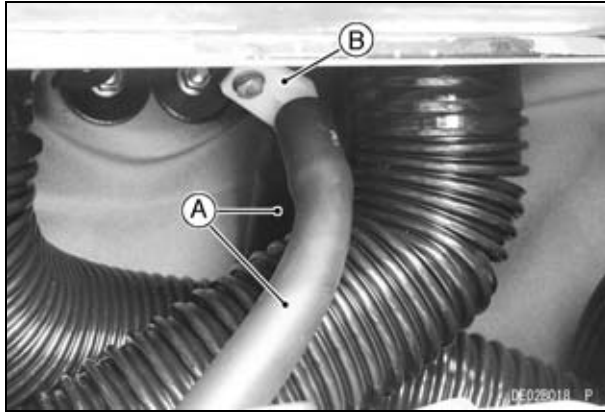
- Remove the handrail plate by removing the nuts and washers.



A. Nuts and Washers

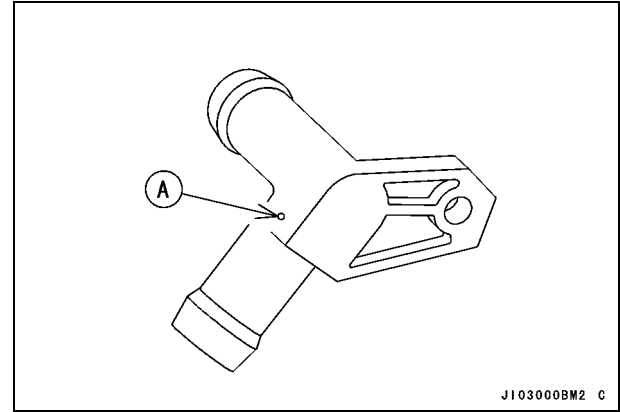
B. Handrail Plate

- Disconnect all bilge hoses at the plastic breather fitting. They are mounted on the rear upper corner in the engine compartment.



A. Bilge Hoses
B. Breather Fitting

- Connect the bilge filter hose, which comes from the hull bottom, to the garden hose, turn the water on, and flush it out for about a minute. During this procedure, water will flow into the engine compartment. Do not allow a large amount of water to accumulate in the engine compartment. Remove the drain screws in the stern to drain the engine compartment.
- Connect the other hose to the garden hose, turn the water on, and flush it out for several minutes.
- Before reconnecting the hoses to each plastic breather fitting, make sure the small breather hole in the fittings is clear. If the hole is clogged, the engine compartment will fill with water when the engine stops or idles. It may be necessary to remove the fitting.



A. Breather Hole

- Reconnect the bilge hoses.

NOTE

- *If your watercraft is to be stored, blow air through both hoses at each breather fitting before they are reconnected (see the Preparation for Storage section in the **STORAGE** chapter).*

Jet Pump Bearings/Seals

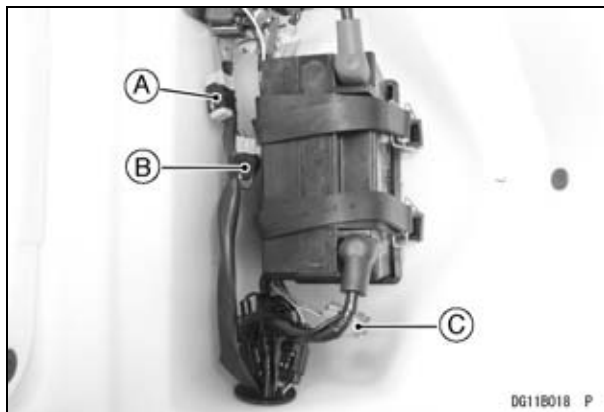
NOTICE

Major engine damage can result if the jet pump bearings fail due to lack of maintenance. To help prevent this, follow the periodic maintenance schedule for the jet pump bearings.

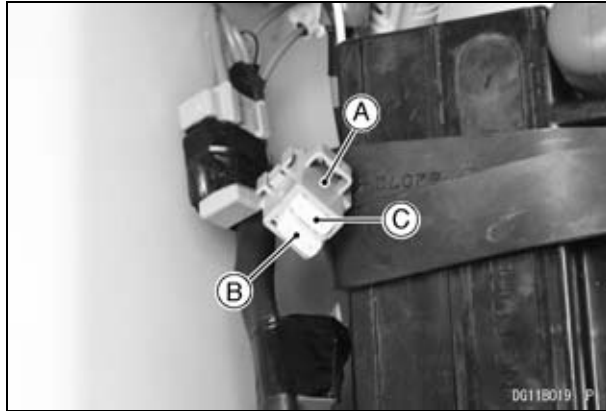
Have your Kawasaki dealer inspect the jet pump bearings and seals after the first 25 hours of use or one year, whichever comes first; and then every 50 hours or every year, whichever comes first. The jet pump bearings should also be serviced before any prolonged storage to prevent any water that may be left in the pump from corroding the bearings and causing premature failure.

Fuses

A 20 A main fuse, 20 A electronic trim-control fuse and a 10 A audio fuse (JT1500M) are installed in the fuse cases located in the battery storage compartment. If a fuse fails during operation, inspect the electrical system to determine the cause, and then replace it with a new fuse of proper amperage.



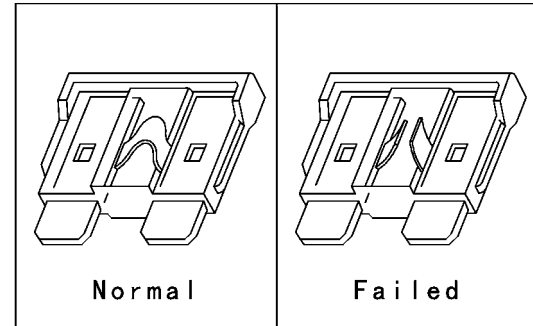
- A. Main Fuse**
- B. Electronic Trim-Control Fuse**
- C. Audio Fuse (JT1500M)**



- A. Fuse Case
- B. Main Fuse
- C. Spare Fuse

NOTICE

Incorrect fuses can damage the electrical system and may lead to a fire. To prevent damage and fire, do not substitute fuses. Replace the blown fuse with a new one of the correct capacity, as specified on the electric case.



 IN AN EMERGENCY

Troubleshooting Guide

If this procedure does not identify your problem, see your JET SKI watercraft dealer.



PROBLEM	POSSIBLE CAUSE		REMEDY	
Engine does not start	Starter motor does not turn over	Ignition key	Not inserted	Insert key
		Lanyard key	Not pushed under stop button	Insert lanyard key under stop button
		Ignition switch	Ignition switch turned "OFF" and/or lanyard key not pushed under stop button	Turn the ignition switch "ON" and/ or insert lanyard key under stop button
		Battery	Battery voltage low	Charge the battery
			Battery connections loose	Check the battery connections
		Fuse	Fuse is blown	Inspect the wiring, and then replace fuse with a new one
	Starter motor turns over	Fuel	Fuel tank low	Refuel in fuel tank
			Fuel is old or dirty	Get an authorized Kawasaki JET SKI watercraft dealer to inspect fuel
		Fuel tank	Water and dust in the fuel tank	Get an authorized Kawasaki JET SKI watercraft dealer to inspect fuel tank
		Spark plug	Fouled or worn spark plug	Get an authorized Kawasaki JET SKI watercraft dealer to inspect spark plug
		Spark plug cap	Poor attachment	Install spark plug cap properly and firmly
			Damage	Get an authorized Kawasaki JET SKI watercraft dealer to inspect spark plug
		Supercharger	No lubricant on supercharger	Get an authorized Kawasaki JET SKI watercraft dealer to inspect supercharger
		Exhaust filter	Old or broken away	Get an authorized Kawasaki JET SKI watercraft dealer to inspect exhaust filter

PROBLEM	POSSIBLE CAUSE		REMEDY
Engine misfires, runs rough	Spark plug	Fouled or worn spark plug	Get an authorized Kawasaki JET SKI watercraft dealer to inspect spark plug
		Wrong heat range	Replace correct spark plug
	Spark plug cap	Poor attachment	Install spark plug cap properly and firmly
		Damage	Get an authorized Kawasaki JET SKI watercraft dealer to inspect spark plug
	Fuel	Fuel tank low fuel level	Refuel in fuel tank
		Fuel is old or dirty	Get an authorized Kawasaki JET SKI watercraft dealer to inspect fuel
Engine power low	FI system	FI system malfunction	Get an authorized Kawasaki JET SKI watercraft dealer to inspect FI system
	Supercharger	Supercharger malfunction (Belt trouble, boost duct leakage)	Get an authorized Kawasaki JET SKI watercraft dealer to inspect supercharger
	Exhaust filter	Old or broken away	Get an authorized Kawasaki JET SKI watercraft dealer to inspect exhaust filter

PROBLEM	POSSIBLE CAUSE		REMEDY	
Engine will not run above 3 000 RPM	Warning indicator light goes on	Engine protection function	Engine protection function operates	See the table (Get an authorized Kawasaki JET SKI watercraft dealer to inspect engine protection function)
	Cooling water temperature gets high	Jet pump	Weeds or debris in jet pump	Clean jet pump water intake duct
		Cooling system	Cooling water line clogged	Get an authorized Kawasaki JET SKI watercraft dealer to inspect cooling system
		Engine oil	Quantity of engine oil is insufficient	Add up to specified value
	Steering hard or erratic	Steering pivot	No lubricant on steering pivot	Lubricate steering pivot
Steering cable		Steering cable damaged	Replace any damaged steering cable	
		Steering cable improperly routed	Rout steering cable properly	

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WARNING

Faulty steering can cause an accident resulting in serious injury or death. To help prevent an accident, have any steering problems examined by an authorized Kawasaki JET SKI watercraft dealer.

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Audio System (JT1500M)

PROBLEM	POSSIBLE CAUSE		REMEDY
Audio system no power	Ignition key	Not inserted	Insert key
	Audio Unit	Audio unit no power	Check the power and make sure audio unit is on
	Fuse	Fuse is blown	Inspect the wiring, and then replace fuse with a new one
Audio system no sound	Audio Unit	Volume Level Low	Check the volume level and increase volume if necessary
	Audio Unit (AUX Mode)	MUTE	Push the "MUTE ►" button to restore the previous volume level
	Audio Apparatus (AUX Mode)	Volume Level Low	Check the volume level and increase volume if necessary
	Audio Apparatus (AUX Mode)	Audio apparatus no power	Check the power and make sure audio apparatus is on
	Audio Apparatus (AUX Mode)	Music is not play	Play the music of audio apparatus
	Audio Apparatus (AUX Mode)	Poor attachment	Install the audio apparatus properly and firmly
	Audio Unit (USB Mode)	PAUSE	Push the "MUTE ►" button to start the music
	USB flash drive (USB Mode)	USB flash drive of more than 4 GB	Use a USB flash drive of up to 4 GB
	USB flash drive (USB Mode)	Other than WMA or MP3 files	Use the WMA or MP3 files
	USB flash drive (USB Mode)	Poor attachment	Install the USB flash drive properly and firmly

In the Case of Emergency

Towing the JET SKI watercraft

Refer to the Towing (a wakeboarder, water skier, tuber, etc.) section in the GENERAL INFORMATION chapter.

Jump Starting

If your watercraft's battery is run down, it should be removed and charged. If this is not practical, a booster battery and jumper cables may be used to start the engine. The booster battery must be of the same voltage as the watercraft battery (12 V).

DANGER

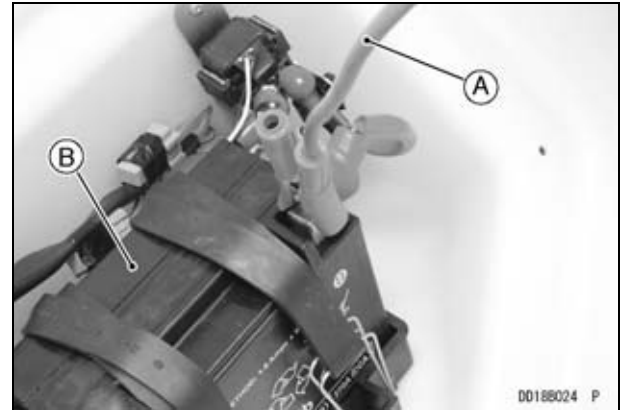
Battery acid generates hydrogen gas which is flammable and explosive under certain conditions. It is present within a battery at all times, even in a discharged condition. Keep all flames and sparks (cigarettes) away from the battery. Wear eye protection when working with a battery. In the event of battery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

- Remove the ignition switch key.
- Remove the seats.
- Open the front storage lid, and remove the front storage case.

- Remove the battery cover.
- Connect a jumper cable between the positive (+) terminals of the two batteries.
- Connect one end of the remaining jumper cable to the negative (–) terminal of the booster battery.

NOTICE

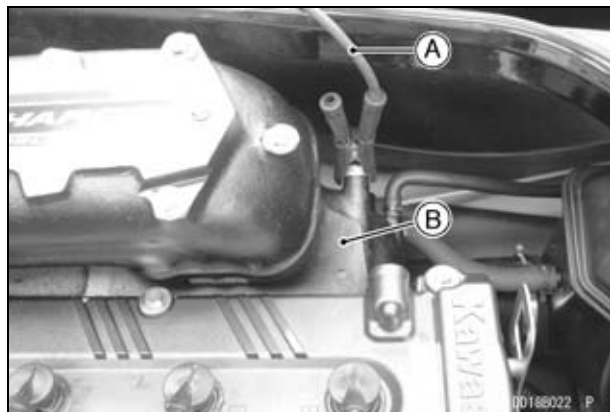
Connecting two batteries in reverse polarity (+ to –) can seriously damage the electrical system. To prevent electrical system damage, be sure the cables are connected to the correct terminals.



A. Positive Cable
B. Battery

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- Connect the other end of the remaining jumper cable to the exhaust pipe bolt.



A. Negative Cable
B. Exhaust Pipe

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 throttle body, injector 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 jump start a frozen battery, it could explode.

NOTICE

Do not operate the starter continuously for more than 5 seconds or the starter will overheat. Wait 15 seconds between each operation of the starter to let it cool.

- Start the watercraft engine following the standard engine starting procedure and then disconnect the jumper cables in the reverse of the sequence just described.

APPENDIX

YOUR WARRANTY/OWNER SATISFACTION

Welcome to the Kawasaki family!

Congratulations on buying your Kawasaki JET SKI™ watercraft. You've chosen a great, high-quality product with state-of-the-art features and built to Kawasaki's high standards. Your satisfaction is important to your authorized Kawasaki dealer and to Kawasaki Motors Corp., U.S.A. Here is some important information regarding your vehicle's limited warranty.

Frequently Asked Questions

What is a Limited Warranty?

The most important thing to know about your warranty is that it protects you from manufacturing defects in material or workmanship during the warranty period. You can find the warranty period in the Kawasaki Limited Warranty Certificate your Kawasaki dealer provided to you at the time of sale. The warranty does not cover the cost of regularly-scheduled maintenance. The warranty also does not apply to the normal wear of items such as batteries, impellers, etc.

What is the Good Times Protection Plan?

Much of the warranty coverage offered by the limited warranty can be extended by purchasing Kawasaki's Good Time™ Protection Plan (GTPP). See your Kawasaki dealer or go to Kawasaki.com for more information if you don't already have the GTPP.

What Am I Responsible For?

You are responsible for maintaining your watercraft according to the maintenance schedule shown in this owner's manual.

You are responsible for taking your product to the dealer immediately if there is a problem, and you, as the owner, will need to authorize the dealer to inspect the unit.

You will be responsible for paying for routine maintenance, including the first scheduled service. You can have the required servicing done by your Kawasaki dealer (recommended) or an equally-qualified service facility. You can also do your own maintenance work if you have the proper tools, service references, and mechanical skills. However, if a failure is found to be caused by improper servicing, it would not be covered by the limited warranty.

You may purchase a Kawasaki Service Manual and any necessary special tools directly from your Kawasaki dealer.

You will be responsible for paying for repairs needed because of an accident, to replace worn parts such as impellers, and for repairs needed because of a lack of maintenance, misuse or racing.

Whether you do it yourself or take your vehicle to a Kawasaki dealer, be sure to record your service in the Maintenance Record section of this Owner's Manual. Keep all receipts for the service and/or items necessary to perform the maintenance so that in the event of a failure you can document the service history.

What Are The Dealership's Responsibilities?

Your Kawasaki dealer offers a wide range of services, parts, accessories, and information on your product and on Kawasaki.

Each dealer is independently owned and operated and is responsible for the dealership's operations, its repair, warranty, and service work, and its personnel.

Your dealer is responsible for completing the set up and pre-delivery service of your new Kawasaki watercraft. The dealership should also explain its operation, maintenance, and warranty provisions so you

understand them at the time of purchase or at any other time you have questions.

The dealership is responsible for inspecting your Kawasaki watercraft if there is a failure, determining the cause of the problem, and getting any needed authorization from Kawasaki if the repair is one that will be covered by the limited warranty. The dealership will also file all necessary paperwork. The dealership is responsible for correctly completing any necessary repairs, whether they are covered by the limited warranty or not.

How Do I Get Warranty Service?

If there is a problem with your watercraft within the limited warranty period, you will need to schedule a service appointment and provide any maintenance records to an authorized Kawasaki dealer for inspection and diagnosis. You can go to any Kawasaki dealer for warranty repairs. Your Kawasaki dealer will inspect your vehicle and provide you with the results of the inspection. The dealer will perform the repairs at no cost to you if it is determined that the problem is covered by the warranty.

Kawasaki will work with your dealer to resolve any warranty issues. No authorization for warranty work can be given until your watercraft has been inspected by a Kawasaki dealer.

What if I am not Satisfied With My Warranty Service?

If you aren't satisfied with your dealership's repair work or operations, it is best to discuss the situation with the appropriate dealership manager. If you have already done this, then contact the dealership's owner or general manager to request a review of the issue.

If you are unable to resolve a problem after consulting with the dealership management and need further assistance, contact Kawasaki Motors Corp., U.S.A. at the address below. Please be certain to provide the model, hull identification number (HIN), hours of use, accessories, dates that events occurred and what action has been taken by both you and your dealer. Include the name and address of the dealership. To assist us in resolving your inquiry, please include copies of related receipts and any other pertinent information including the name of the dealership personnel with whom you have been working. Upon receipt of your correspondence, Kawasaki Motors Corp., U.S.A. will contact the dealership and work with it in resolving your problem.

Want to Contact Kawasaki?

This owner's manual should answer most of your questions about your Kawasaki. Your Kawasaki dealer should either be able to answer any other questions you might have immediately or be able to find the answer for you.

Please send your correspondence to:

Consumer Services
Kawasaki Motors Corp., U.S.A.
P.O. Box 25252
Santa Ana, CA 92799-5252
(949) 460-5688

REPORTING SAFETY DEFECTS

(For Products Sold in the United States of America, District of Columbia, and U.S. Territories Only)

If you believe that your watercraft has a defect which could cause a crash or could cause injury or death, you should immediately inform the U.S. Coast Guard (U.S.C.G.) in addition to notifying Kawasaki Motors Corporation, U.S.A.

If the U.S.C.G. receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of watercrafts, it may order a recall and remedy campaign. However, the U.S.C.G. cannot become involved in individual problems between you, your dealer, or Kawasaki Motors Corporation, U.S.A.

Please send your correspondence to:

Office of Boating Safety Product Assurance Division-OBP-3

United States Coast Guard

2100 Second Street SW

Washington, DC 20593-0001

ENVIRONMENTAL PROTECTION

Kawasaki subscribes to the guidelines of Tread Lightly! a program dedicated to protecting the great outdoors through education and fostering responsible enjoyment of public lands. When using your Kawasaki JET SKI watercraft, please follow these Tread Lightly! guidelines:

Tread Lightly!

Travel responsibly on designated waterways and launch your watercraft in designated areas.

Respect the rights of others including anglers, swimmers, skiers, boaters, divers and others to allow them to enjoy their recreational activities undisturbed.

Educate yourself by learning rules and regulations, planning for your trip, taking recreation skills classes, and knowing how to use and to operate your equipment safely.

Avoid sensitive areas and operating your watercraft in shallow waters or near shorelines at high speeds.

Do your part by leaving the area better than you found it, properly disposing of fuel, oil and waste, avoiding the spread of invasive species, restoring degraded areas, and joining a local enthusiast organization.

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

Environmental Hang Tag

This engine has been certified as a:



The Symbol for Cleaner Marine Engines:

Cleaner Air and Water – for a healthier lifestyle and environment.

Better Fuel Economy – burns up to 30-40 percent less gas and oil than conventional carbureted two-stroke engines, saving money and resources.

Longer Emissions Warranty – protects consumer for worry free operation.



One Star – Low-Emission

The one-star label identifies engines that meet the California Air Resources Board's 2001 exhaust emission standards. Engines meeting these standards have 75% lower emissions than conventional carbureted two-stroke engines. These engines are equivalent to the U.S. EPA's 2006 standards for marine engines.



Two Stars – Very Low-Emission

The two-star label identifies engines that meet the California Air Resources Board's 2004 exhaust emission standards. Engines meeting these standards have 20% lower emissions than One-Star-Low-Emission engines.



DC06001B S

Three Stars - Ultra Low Emission

The three-star label identifies engines that meet the Air Resources Board's 2008 exhaust emission standards. Engines meeting these standards have 65% lower emissions than One-Star Low Emission engines.



DC05254B S

Four Stars - Super Ultra Low Emission

The four-star label identifies engines that meet the Air Resources Board's Sterndrive and Inboard marine engine 2009 exhaust emission standards. Personal Watercraft may also comply with these standards. Engines meeting these standards have 90 % lower emission than One Star-Low Emission engines.

SPECIFICATIONS

JET SKI WATERCRAFT - MODELS JT1500L/M/N/P
INBOARD BOAT LESS THAN 4.8 M (16 FEET) IN LENGTH

Maximum Number of Riders and Load Limit:		
Maximum number of riders	3 persons (1 operator and 2 passengers) 2 persons (1 operator and 1 observer) when towing a water skier, wakeboarder, or tuber	
Load limit	225 kg including riders and cargo	496 lb
Engine:		
Type	4-stroke, 4-cylinder, DOHC, 4-valve, water-cooled, supercharged	
Displacement	1 498 cm ³	91.4 cu in.
Bore and Stroke	83 × 69.2 mm	3.27 × 2.72 in.
Compression Ratio	8.2 : 1	
Ignition System	Digital transistor	
Lubrication System	Semi-drysump	
Fuel System	Digital fuel injection	
Antiknock Index (RON + MON)/2	Minimum Rating 90	
Starting System	Electric starter	
Tuning Specifications:		
Spark Plug	NGK PMR9B	

Gap	0.6 ~ 0.7 mm	0.024 ~ 0.028 in.
Terminal	Solid post terminal	
Ignition Timing	0° ATDC at 1 300 r/min (rpm) ~ 17° BTDC at 3 000 r/min (rpm)	
Idle Speed	1 300 ±100 r/min (rpm) - in water 1 300 ±100 r/min (rpm) - out of water	
Drive System:		
Coupling	Direct drive from engine	
Jet Pump: Type	Axial flow, single stage	
Thrust	8 407 N (857.5 kgf)	1 890 lb
Steering	Steerable nozzle	
Braking	Water drag	
*Performance:		
Minimum Turning Radius	4.0 m	13.1 ft
Fuel Consumption	91 L/h at full throttle	24 gal (U.S.)/hr
Cruising Range	86.2 km at full throttle 49 minutes	53.6 mi
Dimensions:		
Overall length	3 370 mm	132.7 in.
Overall width	1 195 mm	47.0 in.
Overall Height: JT1500L/P	1 150 mm	45.3 in.
JT1500M	1 255 mm	49.4 in.
JT1500N	1 155 mm	45.5 in.

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Curb Mass:	JT1500L/P	477 kg	1 052 lb
	JT1500M	487 kg	1 074 lb
	JT1500N	475 kg	1 047 lb
Air Draft (1):	JT1500L/P	860 mm	33.9 in.
	JT1500M	965 mm	38.0 in.
	JT1500N	865 mm	34.1 in.
Maximum Draft (2)		365 mm	14.4 in.
Fuel Tank Capacity		78 L	20.6 gal (U.S.)
Engine Oil:			
Type	API SG, SH, SJ, SL or SM with JASO MA, MA1 or MA2		
Viscosity	SAE10W-40		
Oil Capacity	5.5 L		5.8 qt (U.S.)
Electrical Equipment:			
Battery	12 V 18 Ah		

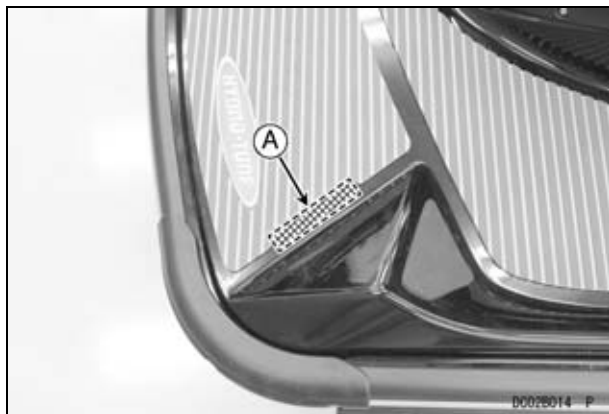
(1) Vertical distance between the floating plane in the light craft condition and the highest point of the craft structure, namely the handle top.

(2) Draft in the fully loaded craft condition.

* The information shown here represents results under controlled conditions, and the information may not be correct under other conditions.

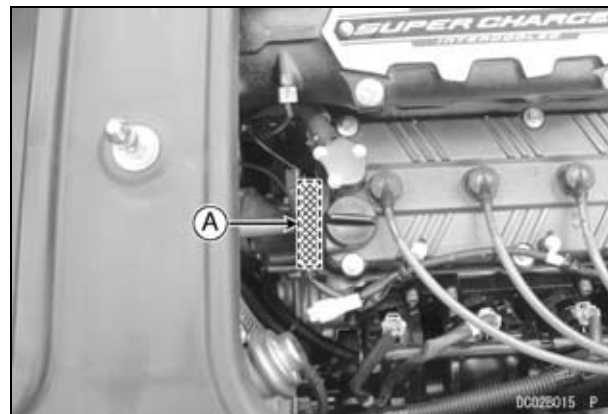
Serial Numbers

The hull and engine identification numbers are used to register the boat. They are the only means of identifying your particular machine from others of the same model. These serial numbers may be needed by your dealer when ordering parts. In the event of theft, investigating authorities will require both numbers as well as the model number and any unique features of your machine that could help identify it. Record these numbers here.



A. Hull Identification Number (HIN)

H.I.N.	
--------	--



A. Engine Number

Eng. No.	
----------	--

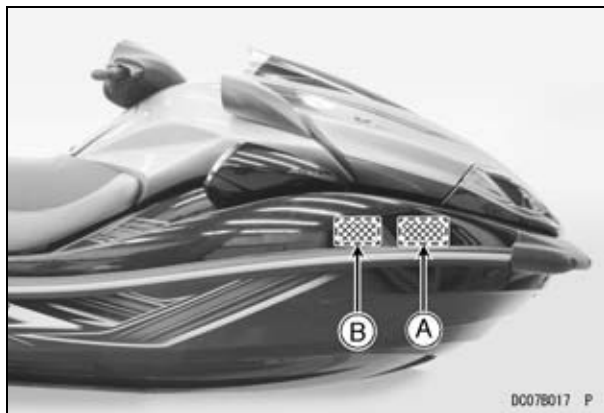
The engine number can also be confirmed by the label on the engine top.

Registration Numbers

The graphic design of your JET SKI watercraft provides a specific location on each side for the registration numbers and validation decals.



A. Location for Registration Number
B. Location for Validation Decal



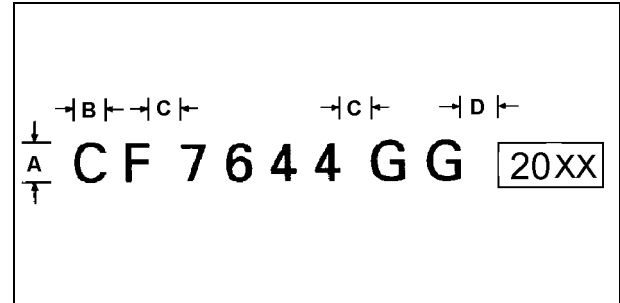
A. Location for Registration Number
B. Location for Validation Decal

The registration numbers must read from left to right on both sides of the watercraft. Typically, the validation decal must be placed 3 inches (76.2 mm) beyond, and level with the first or last letter of the identification number.

NOTE

- *Requirements for registration numbers and validation decals may vary from those given here for your state. Always follow the directions provided at the time you register your watercraft.*

Registration numbers must be block characters no less than 3 inches (76.2 mm) in height. They should be a color contrasting with the background. The spaces between the numerals and the prefix/suffix letters must be equal to the width of any letter except “l” or any number except “1.”



A = 3 inches (76.2 mm) minimum

B = C

D = 3 inches (76.2 mm)

MAINTENANCE RECORD

Owner Name.....

Address

Phone Number

Hull Number

Engine Number

Selling Dealer Name

Address

Phone Number

Warranty Start Date

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

Date	Engine Hours	Maintenance Performed	Dealer Name	Dealer Address

MAINTENANCE RECORD 201

Date	Engine Hours	Maintenance Performed	Dealer Name	Dealer Address



[illegible]

MAINTENANCE RECORD 203

Date	Engine Hours	Maintenance Performed	Dealer Name	Dealer Address



[illegible]

WARNING

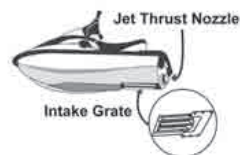
To reduce the risk of SEVERE INJURY or DEATH



**WEAR A PERSONAL
FLOTATION DEVICE (PFD)
AND PROTECTIVE CLOTHING**



**NEVER RIDE AFTER
CONSUMING DRUGS
OR ALCOHOL**



- **DO NOT APPLY THROTTLE WHEN ANYONE IS AT REAR OF PWC.** Water and/or debris exiting jet thrust nozzle can cause severe injury.
- **KEEP AWAY FROM INTAKE GRATE** while engine is on. Certain items can become entangled resulting in severe injury or drowning.

READ OWNER'S MANUAL FIRST!



- **TO AVOID COLLISIONS** resulting in INJURY or DEATH: SCAN CONSTANTLY, OPERATE DEFENSIVELY, TAKE EARLY ACTION. PWCs and other boats do not have brakes.
- **DO NOT RELEASE THROTTLE** WHEN TRYING TO STEER. You need throttle to steer.

- **OPEN ENGINE COMPARTMENT BEFORE STARTING ENGINE.** A concentration of gasoline fumes can cause a fire or explosion.
- **ATTACH ENGINE SHUT-OFF CORD (LANYARD)** to wrist and keep it free from handlebars so that engine stops if operator falls off.
- **RIDE WITHIN YOUR LIMITS AND AVOID AGGRESSIVE MANEUVERS.** Sharp turns or jumping wakes or waves can increase the risk of back/spinal or other injuries.
- **KNOW BOATING LAWS.**

**JT1500LE
JT1500ME
JT1500NE
JT1500PE**



 **Kawasaki**

KAWASAKI HEAVY INDUSTRIES, LTD.
Motorcycle & Engine Company

Part No. 99987-1790

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Printed in Japan

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