



**2015 WaveRunner
VXS
VXR**

OWNER'S/OPERATOR'S MANUAL

**▲ Read this manual carefully
before operating this watercraft.**

YAMAHA MOTOR CO., LTD.
F2W-F8199-70-E0

Read this manual carefully before operating this watercraft. This manual should stay with the WaveRunner if it is sold.

Important manual information

EJU44030

Declaration of Conformity for Personal Watercraft (PWC)

with the requirements of Directive 94/25/EC, as amended by Directive 2003/44/EC

Name of PWC Manufacturer: YAMAHA MOTOR CO., LTD.

Address: 2500 Shingai, Iwata, Shizuoka 438-8501, Japan

Name of Authorised Representative: YAMAHA MOTOR EUROPE N.V.

Address: Koolhovenlaan 101, 1119 NC Schiphol-Rijk, The Netherlands

Name of Notified Body for exhaust and noise emission assessment: SNCH ID Number: 0499

Address: 11, route de Luxembourg BP 32, Sandweiler, L-5230, Luxembourg

Conformity assessment module used:

for construction: A Aa B+C B+D B+E B+F G H

for exhaust emissions: B+C B+D B+E B+F G H

for noise emissions: A Aa G H

Other Community Directives applied		Standards	
<input checked="" type="checkbox"/>	Directive 2004/108/EC relating to electromagnetic compatibility (EMC).	<input checked="" type="checkbox"/>	CISPR 12
		<input checked="" type="checkbox"/>	EN 61000-6-2
<input type="checkbox"/>	Directive 2006/42/EC relating to Machinery.	<input type="checkbox"/>	

DESCRIPTION OF CRAFT

Craft model Identification Number, starting from : U | S | - | Y | A | M | A | 1 | 0 | 0 | 1 | B | 5 | 1 | 5

Design Category : C D

Model name / Commercial name : VX1800A-P / VXR, VX1800-P / VXS

DESCRIPTION OF ENGINE

Engine Type:	Fuel Type:	Combustion cycle:
<input checked="" type="checkbox"/> PWC engine	<input checked="" type="checkbox"/> Petrol	<input checked="" type="checkbox"/> 4 stroke

IDENTIFICATION OF ENGINE COVERED BY THIS DECLARATION OF CONFORMITY

Name of engine model	EC Type-examination certificate number	Name / ID number of Notified Body
6EW	SNCH*94/25*2003/44*0044	SNCH / 0499

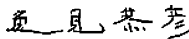
ESSENTIAL REQUIREMENTS

Essential requirements	standards	other normative document / method	technical file	Please specify in more detail (* = mandatory standard)
I.A design and construction	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	EN ISO 13590
I.B exhaust emission	<input checked="" type="checkbox"/> *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	*EN ISO 8178-1
I.C noise emission	<input checked="" type="checkbox"/> *	<input type="checkbox"/>	<input checked="" type="checkbox"/>	*EN ISO 14509

This declaration of conformity is issued under the sole responsibility of the manufacturer. I declare on behalf of the PWC manufacturer that the craft model(s) and engine(s) mentioned above complies (comply) with all applicable essential requirements in the way specified and is (are) in conformity with the type(s) for which above mentioned EC type-examination certificate(s) has (have) been issued.

Name / Title: Y. Henmi / General Manager of Engineering Section, WV Business Unit
(identification of the person empowered to sign on behalf of the manufacturer)

Signature:
(or an equivalent marking)



Date and place of issue: 1st / February / 2015, Shizuoka, Japan

Important manual information


EJU30193

To the owner/operator

Thank you for choosing a Yamaha watercraft. This owner's/operator's manual contains information you will need for proper operation, maintenance, and care. If you have any questions about the operation or maintenance of your watercraft, please consult a Yamaha dealer.

This manual is not a course on boating safety or seamanship. If this is your first watercraft, or if you are changing to a type of watercraft you are not familiar with, for your own comfort and safety, please ensure that you obtain proper training or practice before operating the watercraft by yourself. In addition, a Yamaha dealer or boating organization will be pleased to recommend local sea schools, or competent instructors.

In this manual, information of particular importance is distinguished in the following ways:

 This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

EWJ00072

WARNING

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

ECJ00092

NOTICE

A NOTICE indicates special precautions that must be taken to avoid damage to the watercraft or other property.

TIP:

A TIP provides key information to make procedures easier or clearer.

EJU40411

Because Yamaha has a policy of continuing product improvement, this product may not be exactly as described in this owner's/operator's manual. Specifications are subject to change without notice.

This manual should be considered a permanent part of this watercraft and should remain with it even if the watercraft is subsequently sold.

EJU30233

**WaveRunner VXS / VXR
OWNER'S/OPERATOR'S MANUAL
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General and important labels

EJU36452

Identification numbers

Record the Primary Identification (PRI-ID) number, Craft Identification Number (CIN), and engine serial number in the spaces provided for assistance when ordering spare parts from a Yamaha dealer. Also record and keep these ID numbers in a separate place in case your watercraft is stolen.

EJU42521

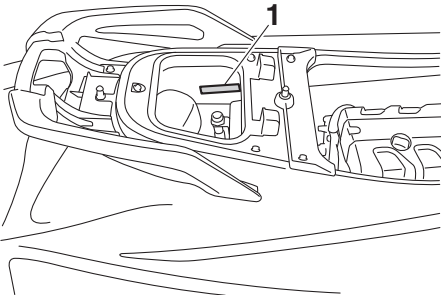
Primary Identification (PRI-ID) number

The PRI-ID number is stamped on a plate attached inside the engine compartment. (See page 43 for seat removal and installation procedures and page 48 for information on the removable watertight storage compartment.)

MODEL:

VX1800-P (VXS)

VX1800A-P (VXR)



1 Primary Identification (PRI-ID) number location

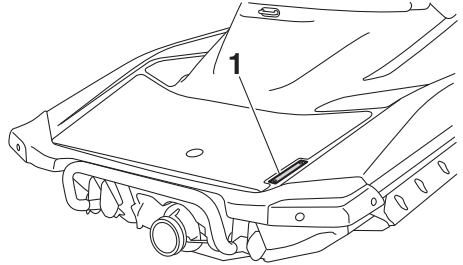
MODEL <input type="text"/>	PRI-ID F2W <input type="text"/>
<small>YAMAHA MOTOR CO., LTD. ASSEMBLED IN U.S.A. FROM AMERICAN AND JAPANESE COMPONENTS. ASSEMBLÉ AUX ÉTATS-UNIS DE PIÈCES AMÉRICAINES ET JAPONAISES.</small>	

F2W-

EJU36551

Craft Identification Number (CIN)

The CIN is stamped on a plate attached to the aft deck.



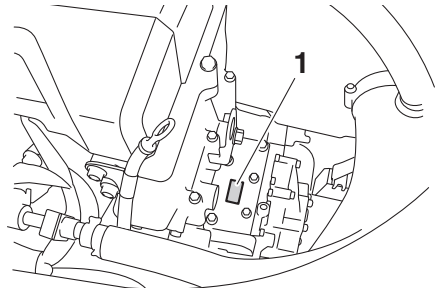
1 Craft Identification Number (CIN) location

US-YAM

EJU30312

Engine serial number

The engine serial number is stamped on a plate attached to the engine unit. (See page 43 for seat removal and installation procedures.)



1 Engine serial number location

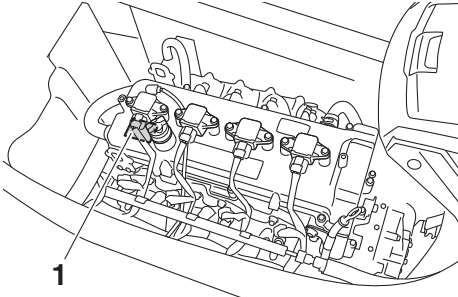
YAMAHA	<input type="text"/>
<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/>
YAMAHA MOTOR CO., LTD. MADE IN JAPAN PAYS D'ORIGINE JAPON	

General and important labels

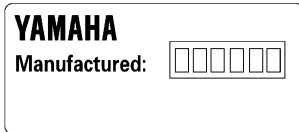
EJU42031

Manufactured date label

This label is attached to the top of the cylinder head. (See page 43 for seat removal and installation procedures and page 85 for engine cover removal and installation procedures.)



1 Manufactured date label location



EJU30321

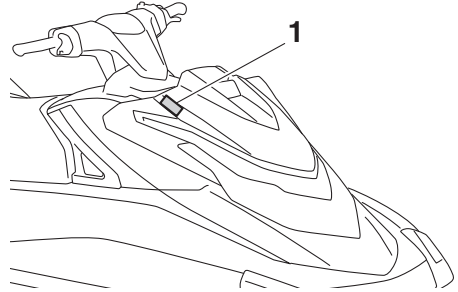
Model information

EJU30332

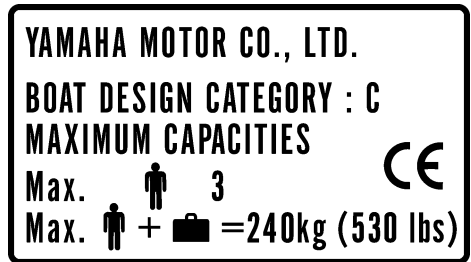
Builder's plate

Watercraft with this label conform to certain portions of the European Parliament directive relating to machinery.

Part of the information is given on the builder's plate affixed on the craft. A full explanation of this information is given in the relevant sections of this manual.



1 Builder's plate location



Design category of this personal watercraft: C

Category C:

This watercraft is designed to operate in winds up to Beaufort force 6 and the associated wave heights (significant wave heights up to 2 m (6.56 ft); see the following TIP). Such conditions may be encountered in exposed inland waters, in estuaries, and in coastal waters in moderate weather conditions.

General and important labels

TIP:

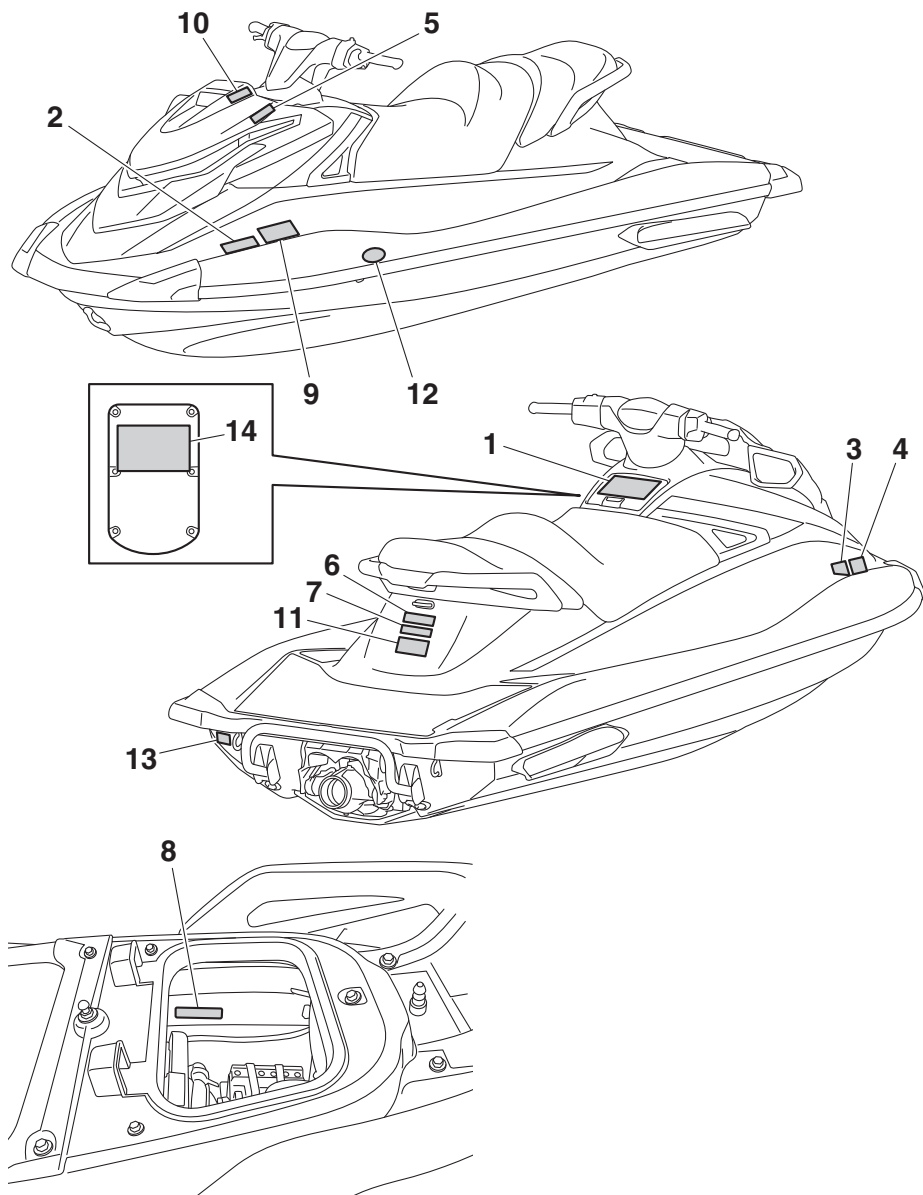
The significant wave height is the mean height of the highest one-third of the waves, which approximately corresponds to the wave height estimated by an experienced observer. However, some waves will be double this height.

General and important labels

EJU30453

Important labels

Read the following labels before using this watercraft. If have any questions, consult a Yamaha dealer.



General and important labels

EJU35914

Warning labels

If any of these labels are damaged or missing, contact a Yamaha dealer for replacements.

1

⚠ WARNING

To reduce the risk of SEVERE INJURY or DEATH:

WEAR A PERSONAL FLOTATION DEVICE (PFD).

All riders must wear an authority - 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/glasses are recommended.

KNOW BOATING LAWS. Yamaha Motor Co., Ltd. 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.

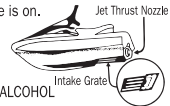
This is a high performance boat - not a toy. Sharp turns or jumping wakes or waves can increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones.

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.

⚠ WARNING

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

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/province and local laws that apply to PWCs. See Owner's Manual for more information.

READ AND FOLLOW OWNER'S MANUAL

YAMAHA

F2X-U41B1-10

2

⚠ AVERTISSEMENT

Afin de limiter les risques de BLESSURES GRAVES, voire MORTELLES: PORTER UN GILET DE SAUVETAGE. Tout utilisateur doit porter un gilet de sauvetage homologué pour les scooters des mers. PORTER DES VÊTEMENTS PROTÉGÉURS. Le choc infligé par la pénétration forcée d'eau dans les orifices corporels lors d'une chute ou lors du contact avec le jet d'eau de la pompe risque de provoquer des lésions graves. Le port d'un simple maillot de bain ne constitue pas une protection adéquate contre la puissance de pénétration de l'eau dans le rectum et/ou le vagin. Tout utilisateur doit porter le pantalon d'une tenue de plongée ou tout autre vêtement offrant une protection semblable. (Voir le manuel d'utilisation.) Le port de chaussures, de gants et de lunettes de plongée est recommandé. CONNAÎTRE LES LOIS DE NAVIGATION. La Yamaha Motor Co., Ltd. recommande la limite d'âge de pilotage de 16 ans. Vérifier l'âge du pilote ainsi que les exigences quant à l'âge prévues par la législation locale. Il est préférable, et parfois requis par certaines législations, de suivre un cours de sécurité maritime. ATTACHER LA LANIÈRE DE L'INTERRUPTEUR D'ARRÊT DU MOTEUR au poignet et l'éloigner du guidon afin que le moteur se coupe bien en cas de chute. Après utilisation, retirer la lanière du scooter afin de prévenir toute utilisation par des enfants ou des personnes non-autorisées.



YAMAHA

F1B-U41B1-21

General and important labels

3

▲ AVERTISSEMENT


Les collisions sont la cause principale des **BLESSURES ET DÉCÈS** d'utilisateurs de scooter des mers. **POUR ÉVITER LES COLLISIONS, ÊTRE CONSTAMMENT à l'affût de personnes, d'objets et d'autres bateaux. Être conscient des conditions limitant sa visibilité ou celle des autres embarcations. PILOTER AVEC PRUDENCE à des vitesses raisonnables et garder une distance de sécurité entre le scooter et toute personne, objet et embarcation.**

- Ne pas suivre une autre embarcation de trop près.
- Ne pas se rapprocher d'autrui en vue de l'éclabousser.
- Éviter les virages brusques ou toute manœuvre qui risque de mettre un autre pilote en danger ou qui l'empêche de pouvoir déterminer clairement la direction que l'on prend.
- Éviter les endroits où flottent des objets et les eaux peu profondes.

REAGIR RAPIDEMENT en vue d'éviter les collisions. Garder à l'esprit que les bateaux n'ont pas de freins.

NE PAS LÂCHER LES GAZ LORSQUE L'ON ESSAYE DE S'ÉLOIGNER d'objets - une poussée est nécessaire à la direction du scooter des mers. Toujours s'assurer avant le départ que l'accélérateur et la direction fonctionnent correctement. Suivre les lois de navigation ainsi que les législations nationales, provinciales et locales concernant les scooters des mers.

Voir le manuel d'utilisation pour plus d'informations.



YAMAHA
F1B-U41B2-01

4

▲ AVERTISSEMENT

Afin de limiter les risques de **BLESSURES GRAVES, voire MORTELLES:**

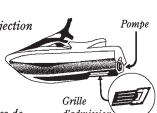
RESPECTER SES LIMITES ET ÉVITER LES MANOEUVRES BRUTALES afin de limiter tout risque de perte de contrôle, d'éjection et de collision. Il s'agit d'un véhicule à hautes performances et pas d'un jouet. Des virées brusques ou le saut de sillages ou de vagues accroît le risque de blessures au dos, voire de paralysie, de blessures au visage et de fractures diverses. **Ne jamais sauter des sillages ni des vagues.**

NE PAS DONNER DES GAZ LORSQUE QUELQU'UN SE TROUVE DERRIÈRE LE VÉHICULE: couper le moteur ou laisser tourner au ralenti. Eau et/ou débris projetés par la pompe pourraient causer des blessures graves.

NE PAS S'APPROCHER DE LA GRILLE D'ADMISSION lorsque le moteur tourne. Cheveux longs, vêtements amples ou lanières de gilet de sauvetage risquent d'être happés, ce qui pourrait provoquer des blessures, ou même une noyade.

NE JAMAIS PILOTER APRÈS AVOIR ABSORBÉ DE L'ALCOOL, DES DROGUES OU CERTAINS MÉDICAMENTS.

LIRE ET RESPECTER LES INSTRUCTIONS DONNÉES DANS LE MANUEL D'UTILISATION.



YAMAHA
F1B-U41B1-31

5

▲ WARNING

Gasoline is highly flammable and explosive. A fire or explosion could cause severe injury or death. Shut engine off. Refuel in well ventilated area away from flames or sparks. Do not smoke. Avoid spilling gasoline. Wipe up spilled gasoline immediately. Remove all seats to ventilate fuel vapors from engine compartment before starting engine. Do not start engine if there is a fuel leak or a loose electrical connection.

▲ AVERTISSEMENT

L'essence est très inflammable et explosible. Un incendie ou une explosion risquent de provoquer des blessures graves, voire mortelles. Couper le moteur. Faire le plein dans un endroit bien aéré et éloigné de toute flamme ou étincelle. Ne pas fumer. Éviter de renverser de l'essence. Essuyer immédiatement toute coulure d'essence. Déposer les selles pour évacuer les vapeurs d'essence du compartiment du moteur avant de mettre le moteur en marche. Ne jamais mettre le moteur en marche en cas de fuite d'essence ou si un branchement électrique est desserré.

REGULAR UNLEADED GASOLINE ONLY **ESSENCE NORMALE SANS PLOMB UNIQUEMENT**

F1S-U415B-11

General and important labels

6

⚠ WARNING

Do not use cleat or grips to lift PWC. PWC could fall, which could result in severe injury.

⚠ AVERTISSEMENT

Ne pas soulever le scooter à l'aide du taquet ou des poignées. Le scooter pourrait tomber et provoquer des blessures graves.

(F1S-U41E1-11)

7

⚠ WARNING

- Severe internal injuries can occur if water is forced into body cavities as a result of being near jet thrust nozzle.
- Wear a wetsuit bottom or clothing that provides equivalent protection.
- Do not board PWC if operator is applying throttle.

⚠ AVERTISSEMENT

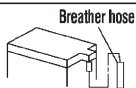
- Le choc intligé par la pénétration forcée d'eau dans les orifices corporels lors du contact avec le jet de la pompe risque de provoquer des lésions graves.
- Porter le pantalon d'une tenue de plongée ou tout autre vêtement offrant une protection semblable.
- Ne pas embarquer lorsque la pilote donne des gaz.

(F1S-U41E1-11)

8

⚠ WARNING

Be sure to connect breather hose to battery. Fire or explosion could result if not connected properly.



⚠ AVERTISSEMENT

Bien veiller à brancher la durit de mise à l'air à la batterie. Un mauvais branchement risque d'être à l'origine d'un incendie ou d'une explosion.



YAMAHA

F0V-U41DB-12

9

⚠ AVERTISSEMENT

APPLICABLE POUR LA FRANCE SEULEMENT

- En France : permis de conduire et immatriculation obligatoire.
- Navigation en mer autorisée entre 300 mètres et 2 milles nautique.
- Entre 0 et 300 mètres, se référer aux instructions nautiques locales affichées. Sinon, règle générale : vitesse maxi 5 nœuds (9Km/h) dans cette zone.
- Utiliser les chenaux obligatoires de sortie lorsqu'ils existent.
- Respecter les règles de priorité.
- Gilet de sauvetage obligatoire-Fusée et bout de remorquage à bord.
- Ne jamais conduire sous l'influence de l'alcool ou de drogues.
- Consulter la météo avant de sortir en mer.
- Une conduite responsable et un contrôle quotidien de votre machine suivant le manuel d'entretien YAMAHA seront garantis de votre sécurité.

YAMAHA

GP8-U418H-01

General and important labels

EJU36262

Other labels

10

**FIRE EXTINGUISHER CONTAINER
COMPARTIMENT DE L'EXTINCTEUR**

F1B-U41F5-21

11

**RATED PERSON CAPACITY: 3
MAXIMUM LOAD: 240 kg (530 lb)
CAPACITÉ MAXIMALE: 3 personnes
CHARGE MAXIMALE: 240 kg(530 lb)**

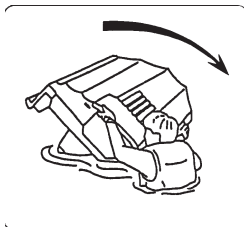
(F1S-U41E1-11)

12



The following label indicates the correct direction to upright a capsized watercraft.

13

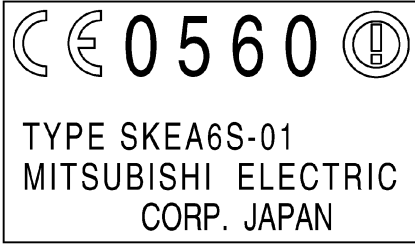


F1G-U418F-00

General and important labels

The following CE marking is located on the back of the remote control transmitter.

14



Safety information

EJU30683

The safe use and operation of this watercraft is dependent upon the use of proper riding techniques, as well as upon the common sense, good judgment, and expertise of the operator. Before using this watercraft, make sure that its use is permitted under local laws, bylaws, and regulations, and always operate the watercraft in full conformity with any requirements and limitations imposed. Every operator should know the following requirements before riding the watercraft.

- Before operating the watercraft, read this owner's/operator's manual, the Riding Practice Guide, the Riding Instruction card, and all labels on the watercraft. These materials should give you an understanding of the watercraft and its operation.
- Never allow anyone to operate this watercraft until they too have read this owner's/operator's manual, the Riding Practice Guide, the Riding Instruction card, and all labels.

EJU30742

Limitations on who may operate the watercraft

- Yamaha recommends a minimum operator age of 16 years old. Adults must supervise use by minors. Know your local operator age and training requirements.
- This watercraft is designed to carry the operator and up to 2 passengers. Never exceed the maximum load limit or allow more than 3 persons (or 2 persons if a wakeboarder or water-skier is being pulled) to ride the watercraft at any time.



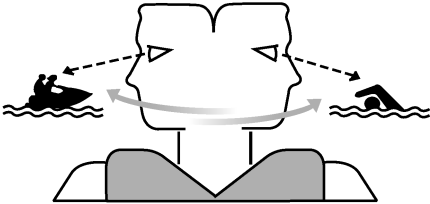
Maximum load:
240 kg (530 lb)
Load is the total weight of cargo, operator, and passengers.

- Do not operate the watercraft with any passengers on board until you have considerable practice and experience riding alone. Operating the watercraft with passengers requires more skill. Take the time to become accustomed to the handling characteristics of the watercraft before trying any difficult maneuvers.

EJU43321

Cruising limitations

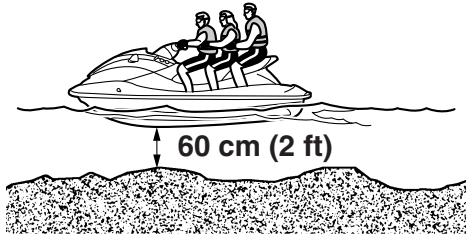
- Scan constantly for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.



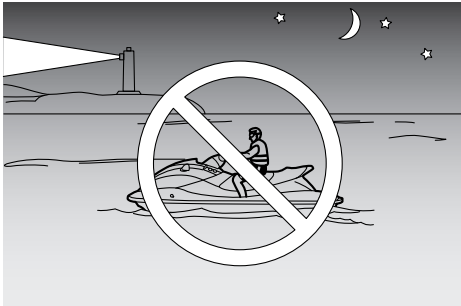
- Operate defensively at safe speeds and keep a safe distance away from people, objects, and other watercraft.
- Do not follow directly behind watercraft or other boats.
- Do not go near others to spray or splash them with water.
- Take early action to avoid collisions. Remember, watercraft and other boats do not have brakes. In addition, the Reverse with Intuitive Deceleration Electronics (RiDE) system is not a braking device for avoiding dangerous situations. The RiDE system is an electronic system for controlling the engine speed and reverse gate, which is located near the jet thrust nozzle. The RiDE lever located at the left handlebar grip can be used to change the direction of the jet thrust so that the watercraft moves in reverse or is in neutral. The RiDE system assists the operator when slowing down and during slow-speed maneuvering, such as launching, beaching, and docking.
- Avoid sharp turns, slowing down rapidly by squeezing the RiDE lever forcefully, and 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.
- Do not release the throttle lever when trying to steer away from objects—you need throttle to steer. Always check throttle and steering controls before starting the watercraft.
- 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 or waves can increase the risk of back/spinal injury (paralysis), facial injuries, and broken legs, ankles, and other bones. Do not jump wakes or waves.
- Do not operate the watercraft in rough water, bad weather, or when visibility is poor; this may lead to an accident causing injury or death. Be alert to the possibility of adverse weather. Take note of weather forecasts and the prevailing weather conditions before setting out on your watercraft.
- As with any water sport, you should not operate your watercraft without someone else nearby. If you operate further than swimming distance from shore, you should be accompanied by another boat or watercraft, but make sure you stay a safe distance away. It's good, common sense.
- Never operate in water that is less than 60 cm (2 ft) deep from the bottom of the watercraft, otherwise you increase your

Safety information

chance of hitting a submerged object, which could result in injury.



- This watercraft is not equipped with lighting required for night operation. Do not operate the watercraft after sunset or before dawn, otherwise you increase the risk of colliding with another boat, which could result in severe injury or death.

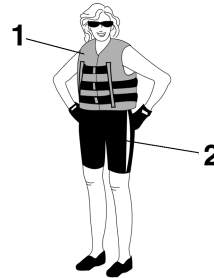


- Follow navigation rules, and state/provincial and local laws that apply to watercraft.

EJU43130

Operation requirements

- All riders must wear a personal flotation device (PFD) that is approved by the appropriate authorities and is suitable for personal watercraft use.
- Wear protective clothing. Severe internal injuries can occur if water is forced into body cavities as a result of falling into the 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 wetsuit bottom or clothing that provides equivalent protection. Such clothing includes thick, tightly woven, sturdy and snug-fitting apparel such as denim, but does not include spandex or similar fabrics, like those used in bicycle shorts.



- 1 Authority-approved PFD
- 2 Wetsuit bottom

- Eye protection is recommended to keep wind, water, and glare from the sun out of your eyes while you operate your watercraft. Restraining straps for eyewear are made which are designed to float should your eyewear fall in the water. Footwear and gloves are recommended.
- You must decide whether to wear a helmet while you ride for recreation. You should know that a helmet could help protect you

in certain kinds of accidents and that it could injure you in others.

A helmet is designed to provide some head protection. Although helmets cannot protect against all foreseeable impacts, a helmet might reduce your injuries in a collision with a boat or other obstacle.

A helmet may have potential safety hazards, as well. Falling into the water could risk the chance of the helmet catching water, commonly known as “bucketing”, and the resulting strain on your neck could cause choking, severe and permanent neck injuries, or death. A helmet could also increase the risk of an accident if it reduces your vision or hearing, or if it distracts you or increases your fatigue.

How should you decide if a helmet’s potential safety benefits outweigh its potential risks for you? Consider your particular riding conditions. Consider factors such as your riding environment and your riding style and ability. Also consider the likelihood of traffic congestion, and the water surface conditions.

If you decide to wear a helmet based upon your riding circumstances, choose one carefully. Look for a helmet designed for personal watercraft use, if possible. If you will be engaging in closed-course competition, follow the helmet requirements of the sanctioning organization.

- Never operate the watercraft after consuming alcohol or taking other drugs.
- For reasons of safety and proper care of the watercraft, always perform the pre-operation checks listed on page 57 before operating the watercraft.
- The operator should grip the handlebars firmly with both hands and the passengers should hold on firmly, either to the person

in front of them or to the handgrip provided.

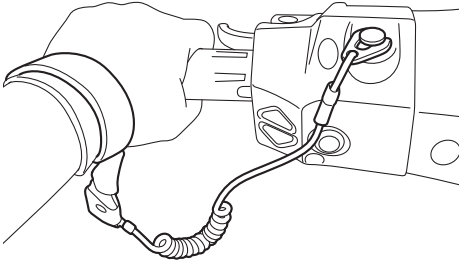
- The operator and passengers should always keep their feet on the floor of the footwell when the watercraft is in motion. Lifting your feet increases the chances of losing your balance, or hitting objects outside the watercraft with your feet. Do not give a ride to children if their feet cannot reach the floor of the footwell.



- Never allow a passenger to ride in front of the operator.
- Always consult your doctor on whether it is safe for you to ride this watercraft if you are pregnant or in poor health.
- Do not attempt to modify this watercraft. Modifications to your watercraft may reduce safety and reliability, and render the watercraft unsafe or illegal for use.
- Attach the engine shut-off cord (lanyard) to your left wrist and keep it free from the handlebars so that the engine stops if you, the operator, fall off. After riding, remove the engine shut-off cord (lanyard) from the wa-

Safety information

watercraft to avoid accidental starting or unauthorized use by children or others.



- Scan carefully for swimmers and stay away from swimming areas. Swimmers are hard to see and you could accidentally hit someone in the water.
- Avoid being hit by another boat. You should always take the responsibility to watch for traffic; other boaters may not be watching for you. If they do not see you, or if you maneuver more quickly than other boaters expect, you risk a collision.
- Maintain a safe distance from other boats and watercraft, and also watch for ski ropes or fishing lines. Obey the “Safe boating rules” and be sure to check behind you before making a turn or slowing down. (See “Safe boating rules” on page 18.)

EJU30841

Recommended equipment

The following items should be carried on board your watercraft:

- Sound-signaling device
You should carry a whistle or other sound-signaling device that can be used to signal other boats.
- Visual distress signals
It is recommended that a pyrotechnic device, which is approved by the appropriate authorities, be stored in a waterproof container on your watercraft. A mirror can also be used as an emergency signal. Contact a Yamaha dealer for more information.
- Watch
A watch is helpful so you will know how long you have been operating the watercraft.
- Towline
A towline can be used to tow a disabled watercraft in an emergency.

EJU42474

Hazard information

- Never start the engine or let it run for any length of time in an enclosed area. Exhaust fumes contain carbon monoxide, a colorless, odorless gas that may cause loss of consciousness and death within a short time. Always operate the watercraft in an open area.
- Do not touch the hot muffler or engine during or immediately after engine operation; they can cause serious burns.
- Do not place magnets or objects with a strong magnetic force near the throttle lever or RiDE lever. The electronic throttle mechanism of the levers can be adversely affected, which could cause loss of control. In addition, do not place objects susceptible to magnetic forces (i.e., credit cards, watches, etc.) close to the throttle lever or RiDE lever.

EJU42414

Watercraft characteristics

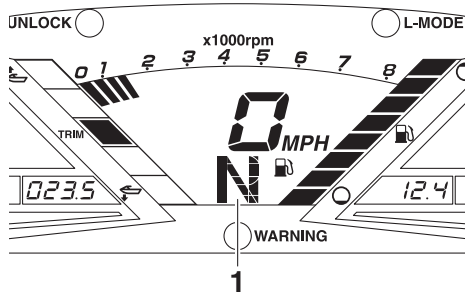
- Jet thrust turns the watercraft. Releasing the throttle lever completely produces only minimum thrust. If you are traveling at speeds above trolling, you will have rapidly decreasing ability to steer without throttle. This model is equipped with the Yamaha Engine Management System (YEMS) that includes an off-throttle steering (OTS) system. It will activate at planing speeds should you attempt to steer the watercraft after releasing the throttle lever. The OTS system assists in turning by continuing to supply some thrust while the watercraft is decelerating, but you can turn more sharply if you apply throttle while turning the handlebars.

The OTS system does not function below planing speeds or when the engine is off. Once the engine slows down, the watercraft will no longer turn in response to handlebar input until you apply throttle again or you reach trolling speed.

Practice turning in an open area without obstacles until you have a good feel for this maneuver.
- This watercraft is water-jet propelled. The jet pump is directly connected to the engine. This means that jet thrust will produce some movement whenever the engine is running and the “F” (forward) or “R” (reverse) shift indicator is displayed in the multifunction display. When the “N” (neutral) shift indicator is displayed, the forward and reverse thrust are balanced to help keep the watercraft from moving in either

Safety information

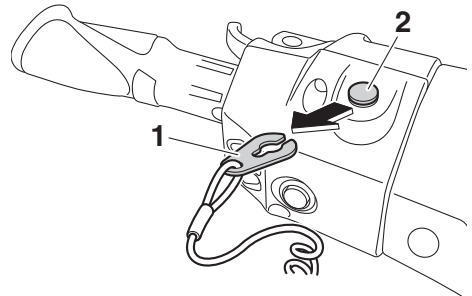
direction, although some movement may occur.



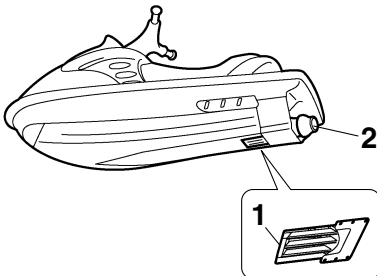
1 "N" (Neutral position)

- To avoid rear-end collisions while operating the watercraft, check behind you before using the RiDE lever to slow down or stop the watercraft. Make sure that there are no obstacles or people behind you before shifting into reverse.
- Keep away from the intake grate while the 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 insert any object into the jet thrust nozzle while the engine is running. Severe injury or death could result from coming in contact with the rotating parts of the jet pump.

- Stop the engine and remove the clip from the engine shut-off switch before removing any debris or weeds, which may have collected around the jet intake.



- 1 Clip
- 2 Engine shut-off switch



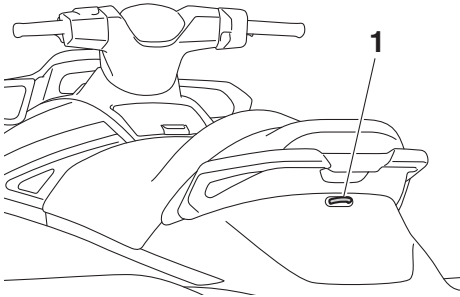
- 1 Intake grate
- 2 Jet thrust nozzle

EJU30956

Wakeboarding and water-skiing

You can use the watercraft for wakeboarding or water-skiing if it has the seating capacity to carry the operator, a rearward-facing spotter, and the wakeboarder or water-skier when he or she is not being pulled.

The watercraft must also have a cleat designed to pull a ski rope; do not attach the rope to any other location.



1 Cleat

It is the watercraft operator's responsibility to be alert to the safety of the wakeboarder or water-skier and others. Know and follow all local regulations in effect for the waters in which you will be operating.

The operator should be comfortable carrying passengers before attempting to pull a wakeboarder or water-skier.

The following are some important considerations for minimizing risks while pulling a wakeboarder or water-skier.

- The wakeboarder or water-skier should wear an approved PFD, preferably a brightly colored one so boat operators can see the person being pulled.
- The wakeboarder or water-skier should wear protective clothing. Severe internal injuries can occur if water is forced into body cavities as a result of falling into the water.

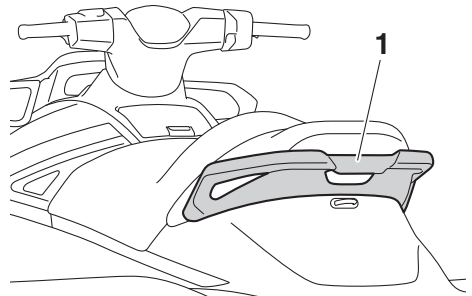
Normal swimwear does not adequately protect against forceful water entry into the rectum or vagina. The person being pulled should wear a wetsuit bottom or clothing that provides equivalent protection.

- A second person should be on board as a spotter to watch the wakeboarder or water-skier; in many places it is required by law. Let the person being pulled direct the operator's control of speed and direction with hand signals.

The spotter should sit astride the rear of the seat and hold onto the handgrip with both feet firmly on the floor of the footwell for proper balance while facing to the rear to watch the wakeboarder's or water-skier's hand signals and condition.



1 Handgrip



1 Handgrip

- Your control while pulling a wakeboarder or water-skier is affected by the wakeboard-

Safety information

er's or water-skier's ability, as well as water and weather conditions.

- When preparing to pull a wakeboarder or water-skier, operate the watercraft at the slowest possible speed until the watercraft is well away from the person being pulled and slack in the ski rope is taken up. Make sure that the rope is not looped around anything.

After checking that the wakeboarder or water-skier is ready and that there is no traffic or other obstacles, apply enough throttle to raise the person.

- Make smooth, wide turns. The watercraft is capable of very sharp turns, which could exceed the abilities of the wakeboarder or water-skier. Keep the person being towed at least 50 m (164 ft), about twice the distance of a standard ski rope, away from any potential hazard.
- The operators of boats and other watercraft may not be aware that you are pulling a wakeboarder or water-skier. Together with the spotter, pay attention to others around you and cruise at safe speeds.
- Be alert to the hazard of the ski rope handle snapping back at the watercraft when the wakeboarder or water-skier falls or is unable to get up.
- Towing heavy or bulky objects other than wakeboarders or water-skiers, such as another boat or watercraft, can cause loss of steering control and create a hazardous condition. If you must tow another boat in an emergency situation, operate slowly and cautiously.

EJU30971

Safe boating rules

Your Yamaha watercraft is legally considered a powerboat. Operation of the watercraft must be in accordance with the rules and regulations governing the waterway on which it is used.

EJU30992

Enjoy your watercraft responsibly

You share the areas you enjoy when riding your watercraft with others and with nature. So your enjoyment includes a responsibility to treat these other people, and the lands, waters, and wildlife with respect and courtesy.

Whenever and wherever you ride, think of yourself as the guest of those around you. Remember, for example, that the sound of your watercraft may be music to you, but it could be just noise to others. And the exciting splash of your wake can make waves others won't enjoy.

Avoid riding close to shoreline homes and waterfowl nesting areas or other wildlife areas, and keep a respectful distance from fishermen, other boats, swimmers, and populated beaches. When travel in areas like these is unavoidable, ride slowly and obey all laws.

Proper maintenance is necessary to ensure that the exhaust emission and sound levels of your watercraft will continue to be within regulated limits. You have the responsibility to make sure that the recommended maintenance in this owner's/operator's manual is carried out.

Remember, pollution can be harmful to the environment. Do not refuel or add oil where a spill could cause damage to nature. Remove your watercraft from the water and move it away from the shoreline before refueling. Dispose of water and any fuel and oil residue in the engine compartment according to local regulations. And keep your surroundings pleasant for the people and wildlife that share the waterways: don't litter.

When you ride responsibly, with respect and courtesy for others, you help ensure that our waterways stay open for the enjoyment of a variety of recreational opportunities.

Description

EJU43331

Watercraft glossary

Trolling speed

“Trolling” is the lowest maneuvering speed. You are applying little or no throttle. The watercraft is down in the water, and there is no wake.

Sub-planing speed

“Sub-planing” is a medium speed. The bow of the watercraft is slightly up from the water surface, but you are still traveling through the water. There is a wake.

Planing speed

“Planing” is a faster speed. The watercraft is more level and is skimming on top of the water. There is a wake.

Bow

The front end of the watercraft.

Stern

The rear end of the watercraft.

Starboard

The right side of the watercraft when facing forward.

Port

The left side of the watercraft when facing forward.

Bilge water

Water that has collected in the engine compartment.

Yamaha Engine Management System (YEMS)

YEMS is an integrated, computerized management system that controls and adjusts ignition timing, fuel injection, engine diagnostics, and the off-throttle steering (OTS) system.

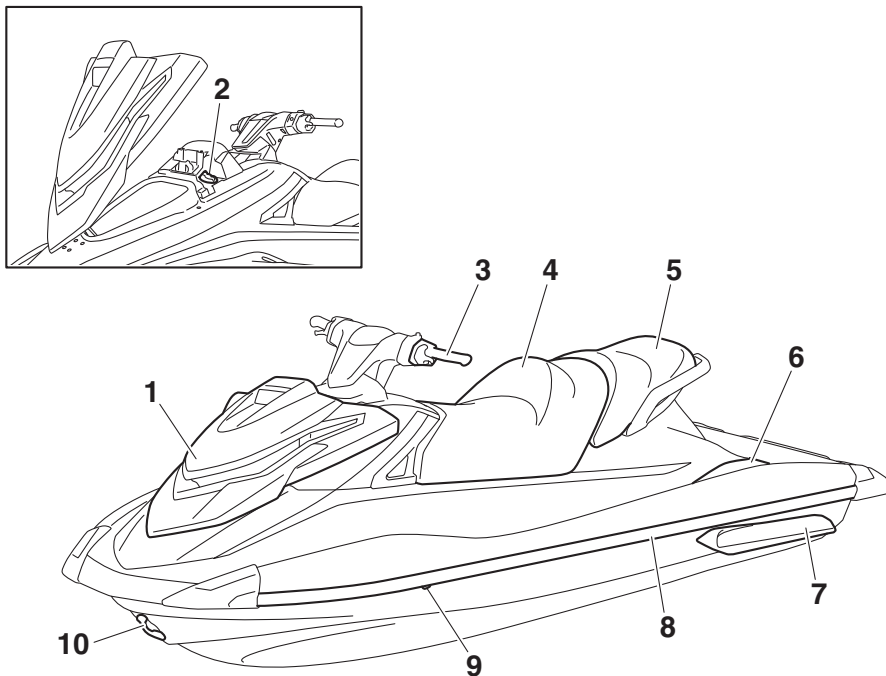
Reverse with Intuitive Deceleration Electronics (RiDE)

RiDE is an electronic system that controls the reverse, neutral, and deceleration operations of the watercraft.

EJU31012

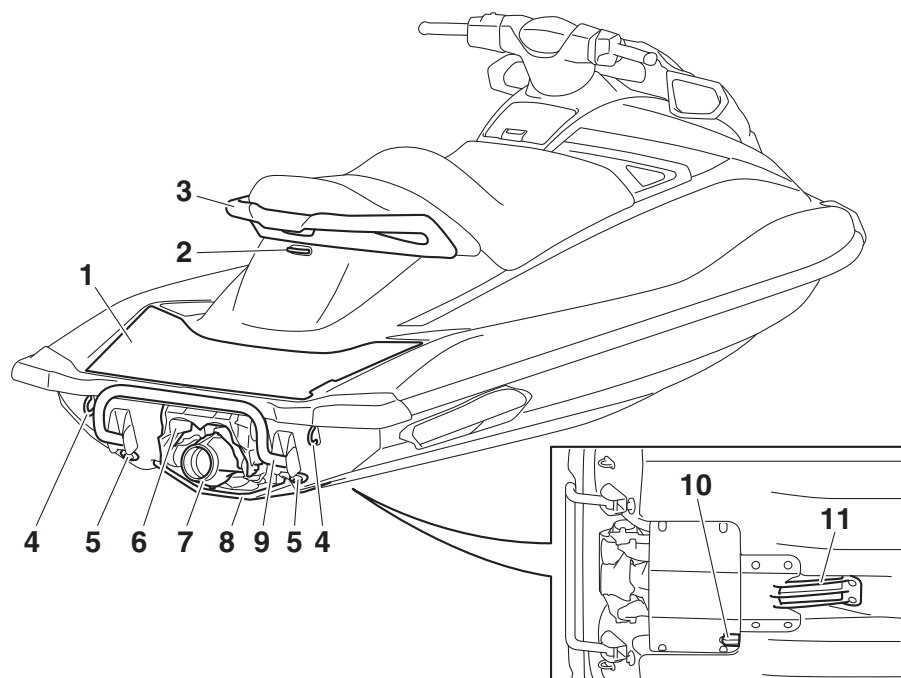
Location of main components

Exterior

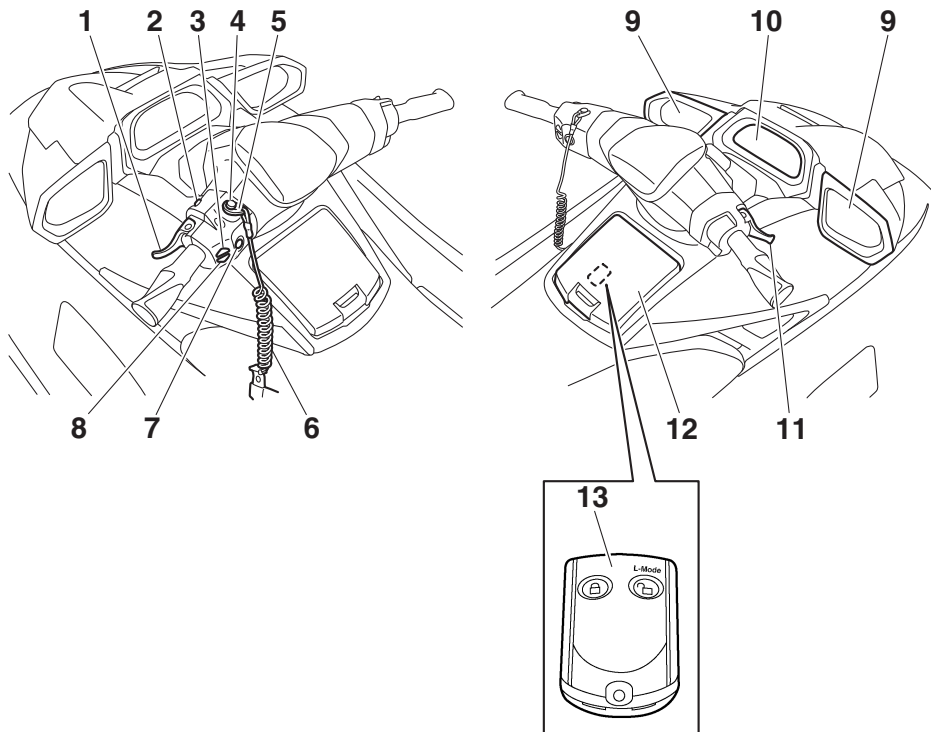


- 1 Hood
- 2 Fuel filler cap (page 50)
- 3 Handlebar
- 4 Front seat (page 43)
- 5 Rear seat (page 43)
- 6 Footwell
- 7 Sponson
- 8 Gunwale
- 9 Cooling water pilot outlet (page 29)
- 10 Bow eye (page 45)

Description



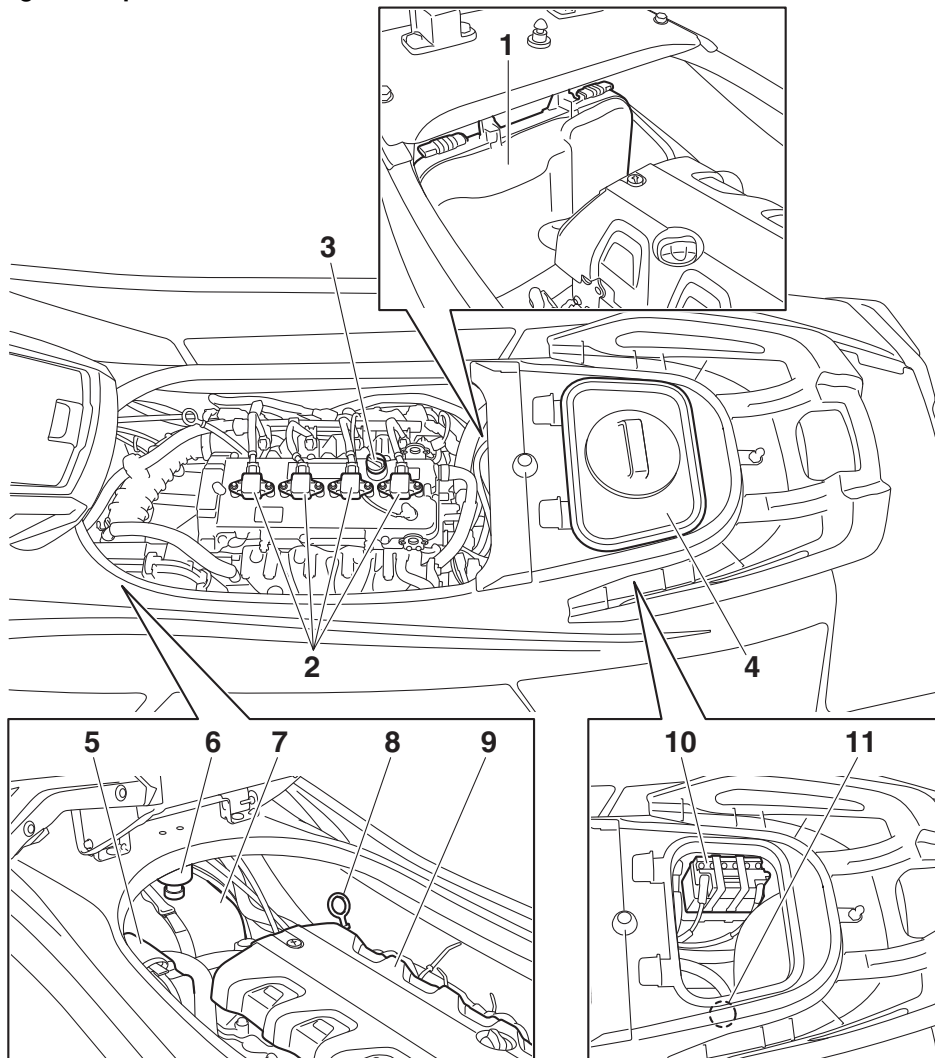
- 1 Boarding platform
- 2 Cleat (page 45)
- 3 Handgrip (page 44)
- 4 Stern eye (page 45)
- 5 Stern drain plug (page 54)
- 6 Reverse gate (page 31)
- 7 Jet thrust nozzle
- 8 Ride plate
- 9 Reboarding step (VXR) (page 44)
- 10 Speed sensor
- 11 Intake grate



- 1 RiDE lever (page 31)
- 2 Start switch (page 27)
- 3 Electric trim up switch (page 33)
- 4 Engine shut-off switch (page 27)
- 5 Clip (page 27)
- 6 Engine shut-off cord (lanyard) (page 27)
- 7 Engine stop switch (page 27)
- 8 Electric trim down switch (page 33)
- 9 Rearview mirror
- 10 Multifunction information center (page 37)
- 11 Throttle lever (page 28)
- 12 Glove compartment (page 47)
- 13 Remote control transmitter (page 25)

Description

Engine compartment



1 Electrical box

2 Spark plug/Spark plug cap/Ignition coil

3 Engine oil filler cap (page 52)

4 Removable watertight storage compartment (page 48)

5 Air filter case

6 Water separator (page 29)

7 Fuel tank

8 Dipstick

9 Engine cover

10 Battery (page 60)

11 Flushing hose connector

Control function operation

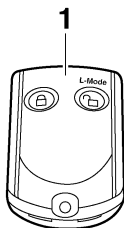
EJU31026

Watercraft control functions

EJU43690

Remote control transmitter

The Yamaha Security System and Low RPM Mode settings can be selected by operating the remote control transmitter. (See page 26 for Yamaha Security System setting procedures and page 35 for Low RPM Mode activation procedures.)



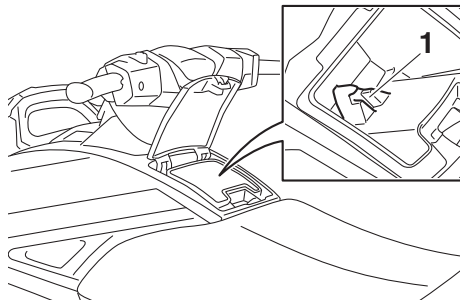
1 Remote control transmitter

Since the watercraft is programmed to recognize the internal code from this transmitter only, the settings can only be selected with this transmitter.

If you accidentally lose your remote control transmitter or if it is not operating properly, contact a Yamaha dealer.

When operating the watercraft, always keep the transmitter with you, such as by storing it

in the transmitter holder in the glove compartment, so that it is not lost.



1 Transmitter holder

ECJ00753

NOTICE

- The remote control transmitter is not completely waterproof. Do not submerge the transmitter or operate it underwater. If the transmitter is submerged, dry it with a soft, dry cloth, and then check that it is operating properly. If the transmitter is not operating properly, contact a Yamaha dealer.
- Keep the remote control transmitter away from high temperatures and do not place it in direct sunlight.
- Do not drop the remote control transmitter, subject it to strong shocks, or place any heavy items on it.
- Use a soft, dry cloth to clean the remote control transmitter. Do not use detergent, alcohol, or other chemicals.
- Do not attempt to disassemble the remote control transmitter yourself. Otherwise, the transmitter may not operate properly. If the transmitter needs a new battery, contact a Yamaha dealer. Refer to local hazardous waste regulations when disposing of transmitter batteries.

Control function operation

EJU31385

Yamaha Security System

The Yamaha Security System functions to help prevent unauthorized use or theft of the watercraft. The lock and unlock modes of the security system can be selected by operating the remote control transmitter that is included with this watercraft. The engine cannot be started if the lock mode of the security system is selected. The engine can only be started if the unlock mode is selected. (See page 25 for information on the remote control transmitter.)




TIP:

The Yamaha Security System settings can only be selected while the engine is stopped.

EJU36776

Yamaha Security System settings

The Yamaha Security System settings will be confirmed by the number of beeps when the remote control transmitter is operated, and by the “UNLOCK” indicator light of the multifunction information center. (See page 37 for information on the multifunction information center.)

Number of beeps	Yamaha Security System mode	“UN-LOCK” indicator light
	Lock	Goes off
	Unlock (normal operation mode)	Comes on
	Unlock (Low RPM Mode)	Comes on

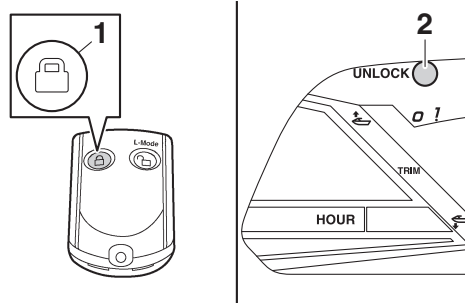
TIP:

- The beeper sounds two times for the normal operation mode or three times for the Low RPM Mode. (See page 35 for Low RPM Mode activation procedures.)
- If the remote control transmitter is operated while the multifunction information center

is in the standby state, the center will perform the initial operation, and then the setting is selected.

To select the lock mode:

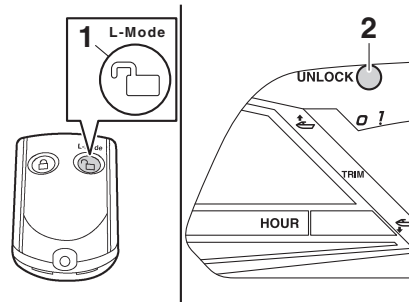
Push the lock button on the remote control transmitter briefly. The beeper sounds once and the “UNLOCK” indicator light blinks once, then goes off. This indicates the lock mode is selected.



- 1 Lock button
- 2 “UNLOCK” indicator light

To select the unlock mode:

Push the “L-Mode” (unlock) button on the remote control transmitter briefly. The beeper sounds two or three times and the “UN-LOCK” indicator light blinks two or three times, then comes on. This indicates the unlock mode is selected.



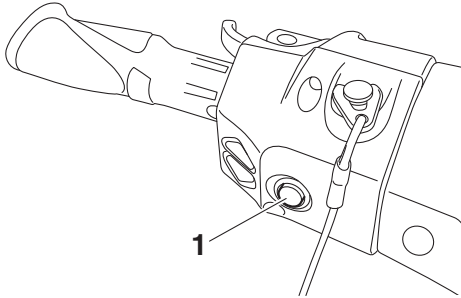
- 1 “L-Mode” (unlock) button
- 2 “UNLOCK” indicator light

Control function operation

EJU31153

Engine stop switch “”

The engine stop switch (red button) stops the engine when the switch is pushed.



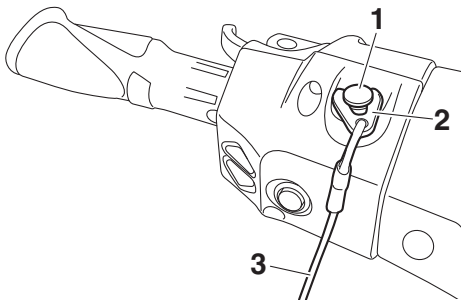
1 Engine stop switch

EJU31164

Engine shut-off switch “”

The engine shut-off switch automatically stops the engine when the clip, on the end of the engine shut-off cord (lanyard), is removed from the switch, such as if the operator falls off the watercraft.

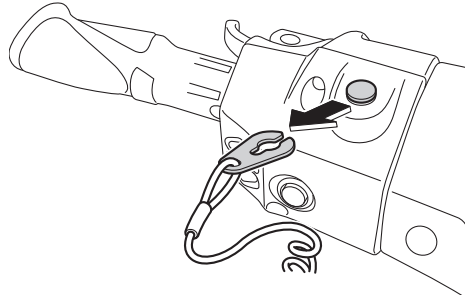
Insert the clip under the engine shut-off switch before starting the engine.



- 1 Engine shut-off switch
- 2 Clip
- 3 Engine shut-off cord (lanyard)

When the engine is not running, remove the clip from the engine shut-off switch to pre-

vent accidental starting or unauthorized operation by children or others.



EJU42323

Start switch “”

ECJ01311

NOTICE

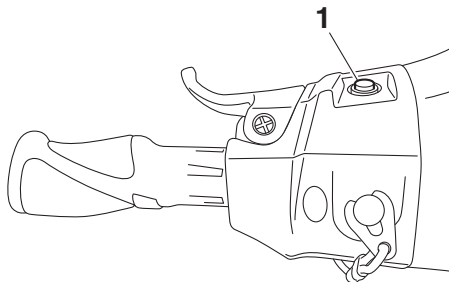
Do not run the engine over 4000 r/min on land. Also, do not run the engine for more than 15 seconds without supplying water, otherwise the engine could overheat.

The start switch (green button) starts the engine when the switch is pushed.

Release the start switch as soon as the engine starts to run. If the engine does not start in 5 seconds, release the start switch, wait 15 seconds, and then try again. **NOTICE: Never push the start switch while the engine is running. Do not operate the start switch for more than 5 seconds, otherwise the battery will be discharged and the engine**

Control function operation

will not start. Also, the starter motor could be damaged. [ECJ01041]



1 Start switch

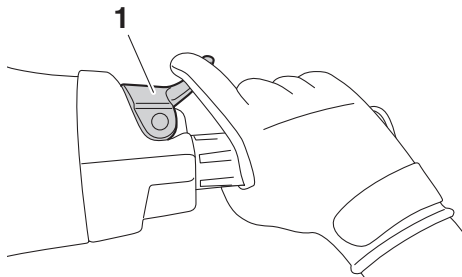
The engine will not start under any of the following conditions:

- Lock mode of the Yamaha Security System has been selected. (See page 26 for Yamaha Security System setting procedures.)
- Clip is removed from the engine shut-off switch.
- Throttle lever is squeezed.
- Throttle lever is malfunctioning.
- RiDE lever is squeezed.
- RiDE lever is malfunctioning.

EJU31212

Throttle lever

The throttle lever increases the engine speed when the lever is squeezed.



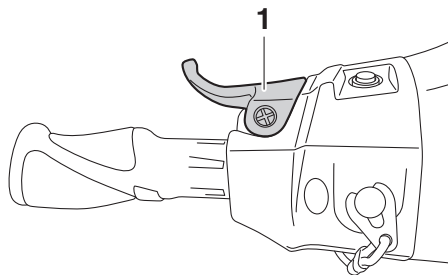
1 Throttle lever

The throttle lever returns automatically to its fully closed (idle) position when released.

EJU43341

RiDE lever

When the RiDE lever is squeezed, the reverse gate lowers and the watercraft starts moving in reverse. If the watercraft is moving forward, the watercraft gradually slows down until it stops, and then the watercraft starts moving in reverse.



1 RiDE lever

When the RiDE lever is released, it automatically returns to its fully closed (idle) position and the reverse gate moves to the neutral position.

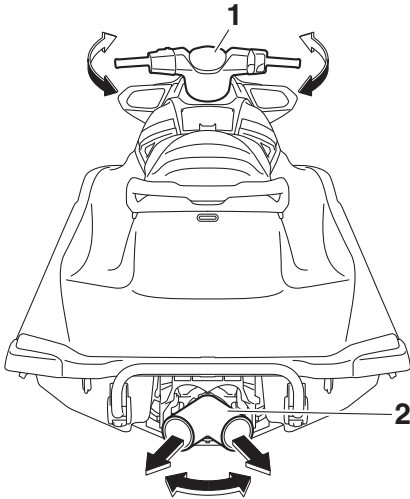
EJU31262

Steering system

By turning the handlebars in the direction you wish to travel, the angle of the jet thrust nozzle

Control function operation

zle is changed, and the direction of the watercraft is changed accordingly.



- 1 Handlebar
- 2 Jet thrust nozzle

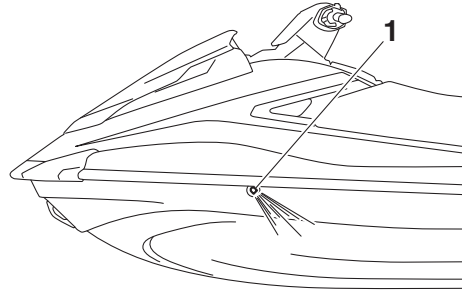
Since the strength of the jet thrust determines the speed and degree of a turn, throttle must always be applied when attempting a turn, except at trolling speed.

This model is equipped with the Yamaha Engine Management System (YEMS) that includes an off-throttle steering (OTS) system. It will activate at planing speeds should you attempt to steer the watercraft after releasing the throttle lever. The OTS system assists in turning by continuing to supply some thrust while the watercraft is decelerating, but you can turn more sharply if you apply throttle while turning the handlebars. The OTS system does not function below planing speeds or when the engine is off. Once the engine slows down, the watercraft will no longer turn in response to handlebar input until you apply throttle again or you reach trolling speed.

EJU35975

Cooling water pilot outlet

When the engine is running, some of the cooling water that is circulated in the engine is discharged from the cooling water pilot outlet.



- 1 Cooling water pilot outlet

There is a cooling water pilot outlet on the port (left) side of the watercraft. To check for proper operation of the cooling system, make sure that water is being discharged from the cooling water pilot outlet. If water is not being discharged from the outlet, stop the engine and check the jet intake for clogging. (See page 94 for information on the jet intake.)

TIP:

- It will take about 60 seconds for the water to reach the outlet after the engine is started.
- Water discharge may not be constant when the engine is running at idling speed. If this occurs, apply a little throttle to make sure that water discharges properly.

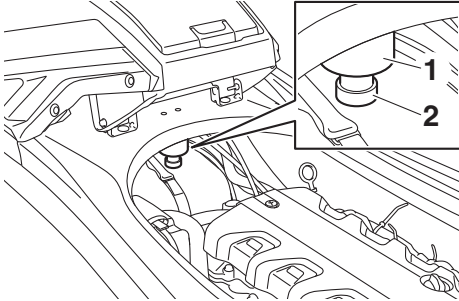
EJU40323

Water separator

The water separator prevents water from entering the fuel tank by collecting any water that has entered the fuel tank breather hose if the watercraft was capsized.

Control function operation

If water has collected in the water separator, drain it by loosening the drain screw.



1 Water separator

2 Drain screw

To drain water from the water separator:

- (1) Place a drain pan or dry cloth under the water separator.
- (2) Gradually loosen the drain screw to drain the water. Catch the draining water in the drain pan or soak it up with the dry cloth so that it does not spill into the engine compartment. If any water spills into the watercraft, be sure to wipe it up with a dry cloth.
- (3) Securely tighten the drain screw until it stops.

Watercraft operation

EJU40013

Watercraft operation functions

EJU43153

Shift system

EWJ01773

WARNING

- Make sure that there are no obstacles or people behind you before shifting into reverse.
- Do not touch the reverse gate while the RiDE lever is being operated, otherwise you could be pinched.
- If the RiDE lever and throttle lever are being operated at the same time, do not release only the RiDE lever. Otherwise, the watercraft could accelerate more quickly than expected, which may lead to an accident.

The RiDE lever and throttle lever can be operated to change the forward or rearward movement of the watercraft only when the engine is running. When the RiDE lever is squeezed, the reverse gate lowers and deflects the water jet being discharged from the jet thrust nozzle so that the watercraft moves in reverse or is in neutral. When the throttle lever is squeezed, the reverse gate rises and the watercraft moves forward.

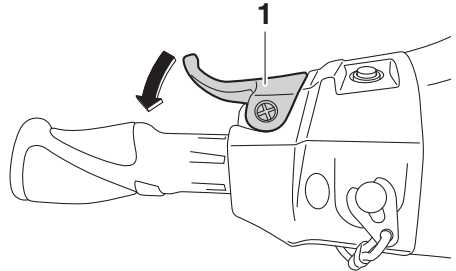
TIP:

- This model is equipped with a function which limits the engine speed in reverse.
- When the engine is started, the reverse gate automatically moves to the neutral position.

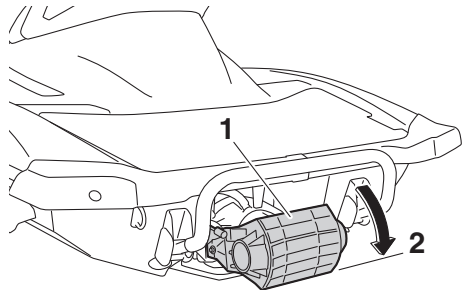
To shift into reverse:

- (1) Release the throttle lever.
- (2) Squeeze the RiDE lever. The reverse gate will lower, the engine speed will increase, the watercraft will start moving in

reverse, and the “R” (reverse) shift indicator will be displayed.

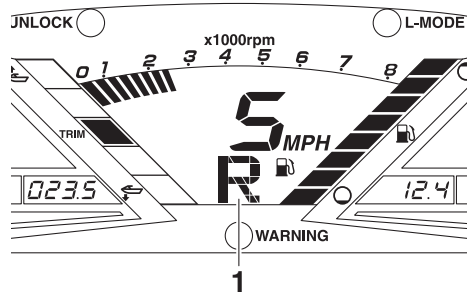


1 RiDE lever



1 Reverse gate

2 Reverse position



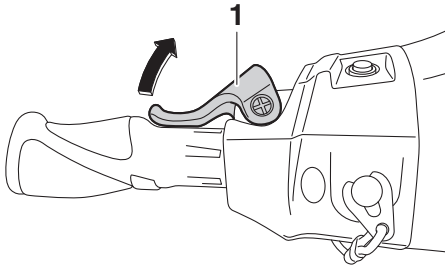
1 “R” (Reverse position)

To shift into neutral from reverse:

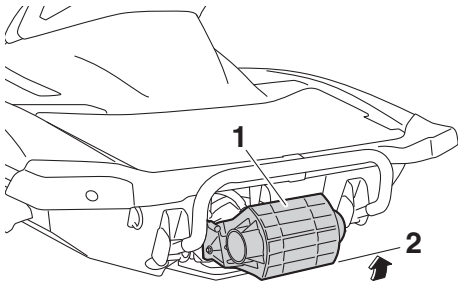
Release the RiDE lever. The reverse gate will automatically return to the neutral position

Watercraft operation

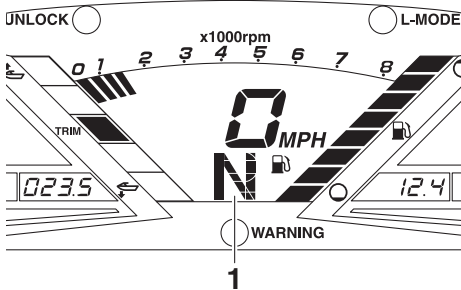
and the “N” (neutral) shift indicator will be displayed.



1 RiDE lever



1 Reverse gate
2 Neutral position



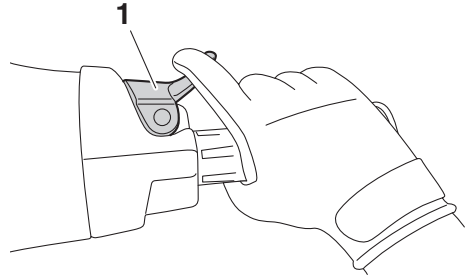
1 “N” (Neutral position)

TIP:

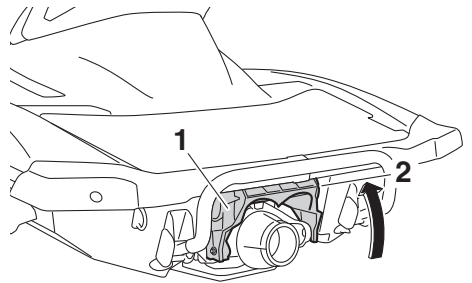
Although the neutral position helps keep the watercraft from moving even when the engine is running, some movement may occur.

To shift into forward:

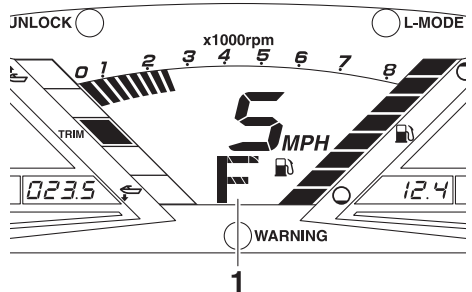
- (1) Release the RiDE lever.
- (2) Squeeze the throttle lever. The reverse gate will rise completely, the engine speed will increase, the watercraft will start moving forward, and the “F” (forward) shift indicator will be displayed.



1 Throttle lever



1 Reverse gate
2 Forward position



1 “F” (Forward position)

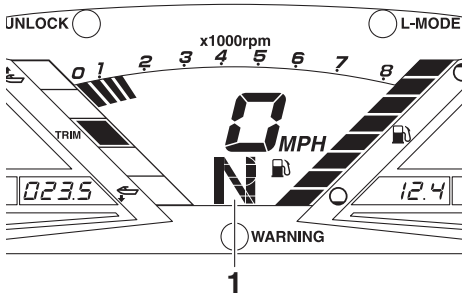
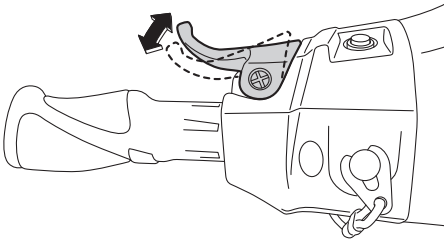
Watercraft operation

TIP:

If the RiDE lever is squeezed while the throttle lever is squeezed, the watercraft will slow down, and once stopped, move in reverse.

To shift into neutral from forward:

- (1) Release the throttle lever.
- (2) Lightly squeeze and release the RiDE lever. The “N” (neutral) shift indicator will be displayed.



1 “N” (Neutral position)

TIP:

If the RiDE lever is squeezed continuously, the reverse gate will move to the reverse position.

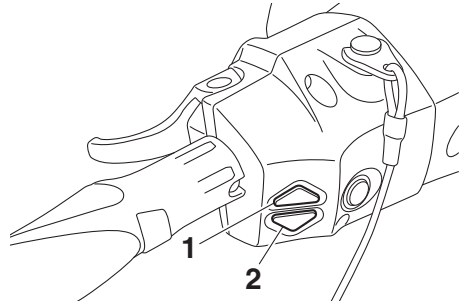
EJU43161

Electric trim system

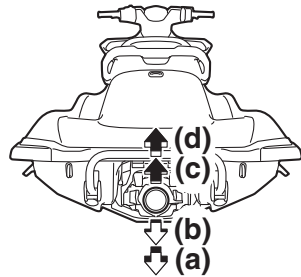
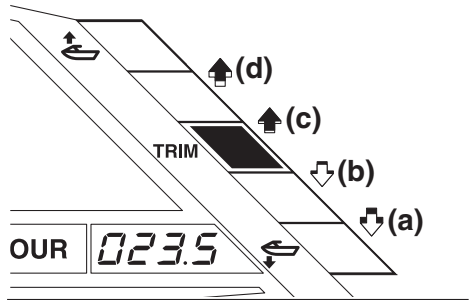
The electric trim up switch and electric trim down switch are located at the left handlebar grip and are operated to change the vertical angle of the jet thrust nozzle, which adjusts the trim angle of the watercraft. The switches

can be operated only when the engine is running.

There are 5 positions: neutral, 2 bow-down positions (a) and (b), and 2 bow-up positions (c) and (d).



- 1 Electric trim up switch
- 2 Electric trim down switch



Bow-down positions (a) and (b)

The bow will go down, causing the trim angle to decrease.

Watercraft operation

Vertical movement of the bow will be reduced and the watercraft will get up on plane more quickly when accelerating.

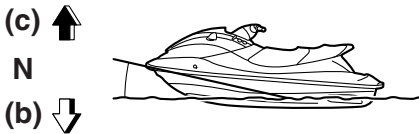
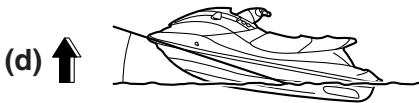
Bow-up positions (c) and (d)

The bow will go up, causing the trim angle to increase.

There is less water resistance, therefore, straight-ahead acceleration is enhanced.

TIP:

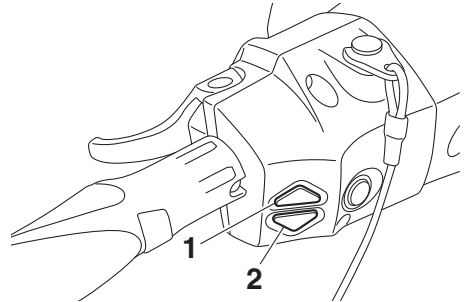
The watercraft performance characteristics according to the trim angle change depending on the operating conditions.



To change the trim angle:

- (1) If the reverse gate is in the neutral position, lightly squeeze the throttle lever so that the watercraft moves forward.

- (2) Push the electric trim up switch or electric trim down switch to select the desired trim angle.



- 1 Electric trim up switch
- 2 Electric trim down switch

TIP:

- When the reverse gate moves to the neutral or reverse position, the jet thrust nozzle will automatically return to the neutral position. When the reverse gate moves to the forward position, the jet thrust nozzle will automatically change to the set trim angle.
- When the engine stops, the jet thrust nozzle returns to the neutral position.

EJU40001

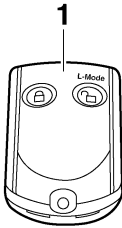
Watercraft operation modes

EJU36787

Low RPM Mode

The Low RPM Mode is a function that limits the maximum engine speed to approximately 70% of the maximum engine speed in the normal mode.

The Low RPM Mode can only be activated and deactivated by operating the remote control transmitter that is included with this watercraft. (See page 25 for information on the remote control transmitter.)



1 Remote control transmitter

TIP:

The Low RPM Mode can only be activated when the engine is stopped in the unlock mode of the Yamaha Security System.

Activating and deactivating the Low RPM Mode

Activation of the Low RPM Mode will be confirmed by the number of beeps when the remote control transmitter is operated, and by the “L-MODE” indicator light of the multifunction information center. (See page 37 for information on the multifunction information center.)

Number of beeps	Low RPM Mode operation	“L-MODE” indicator light
● ● ●	Activated	Comes on
● ●	Deactivated	Goes off

TIP:

If the remote control transmitter is operated while the multifunction information center is in the standby state, the center performs the initial operation, and then the setting is selected.

To activate the Low RPM Mode:

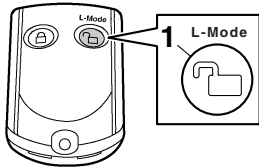
Push the “L-Mode” (unlock) button on the remote control transmitter for more than 4 seconds. Once the beeper sounds three times and the “UNLOCK” indicator light blinks three times, then comes on, the “L-MODE” indicator light comes on and the Low RPM Mode is activated.

TIP:

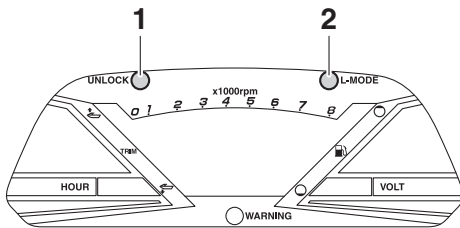
If the Low RPM Mode is activated immediately after the information display turns off, the “L-MODE” indicator light will not come on.

Watercraft operation

The “L-MODE” indicator light will come on when the engine is started.



1 “L-Mode” (unlock) button



1 “UNLOCK” indicator light

2 “L-MODE” indicator light

To deactivate the Low RPM Mode:

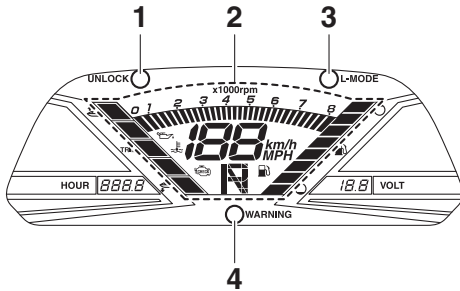
Push the “L-Mode” (unlock) button on the remote control transmitter for more than 4 seconds. Once the beeper sounds two times and the “UNLOCK” indicator light blinks two times, then comes on, the “L-MODE” indicator light goes off and the Low RPM Mode is deactivated. When the Low RPM Mode is deactivated, the watercraft returns to the normal operation mode.

Instrument operation

EJU43760

Multifunction information center

The multifunction information center displays various watercraft information.



- 1 “UNLOCK” indicator light
- 2 Information display
- 3 “L-MODE” indicator light
- 4 “WARNING” indicator light

Multifunction information center initial operation

When the multifunction information center is activated, all of the display segments come on. After 2 seconds, the warning indicators in the information display go off, and then the center starts to operate normally.

If only the multifunction information center is activated, the “WARNING” indicator light blinks once.

TIP:

The “UNLOCK” indicator light also comes on as part of the initial operation.

The “UNLOCK” indicator light will go off when the engine is started.

Multifunction information center standby state

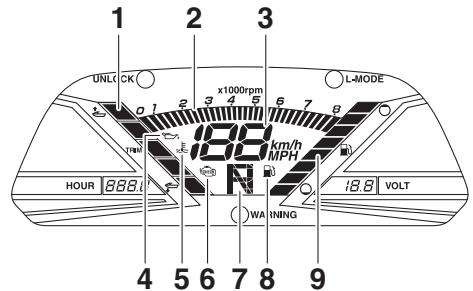
If the multifunction information center does not receive any operation input within 25 seconds after the engine stops, the center will turn off and enter a standby state. When the engine is started again, the displays return to

their state before the center turned off, and then the center starts to operate normally.

EJU35027

Information display

The information display shows watercraft operating conditions.



- 1 Trim indicator
- 2 Tachometer
- 3 Speedometer
- 4 Oil pressure warning indicator
- 5 Engine overheat warning indicator
- 6 Check engine warning indicator
- 7 Shift indicator
- 8 Fuel indicator
- 9 Fuel level meter

EJU43830

Speedometer

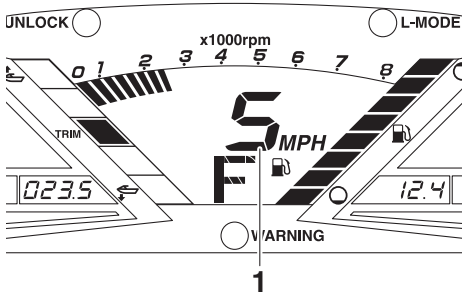
The speedometer shows the watercraft speed against water.

By switching the display units, the speed can be shown in kilometers per hour “km/h” or miles per hour “MPH”.

Instrument operation

TIP:

“MPH” is selected as the display unit at the Yamaha factory.



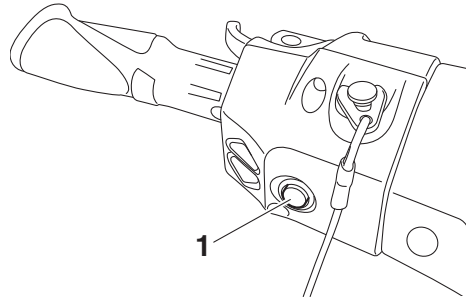
1 Speedometer

To switch the speedometer display units:

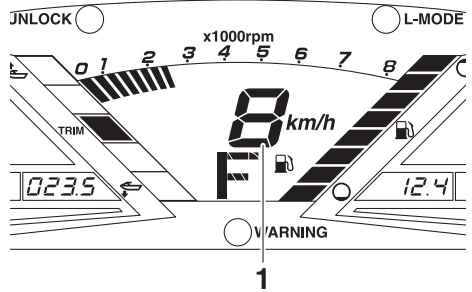
Start the engine, stop the engine, and then push the engine stop switch for at least 4 seconds before the multifunction information

center turns off. The speedometer display units change.

To switch the speedometer display units again, repeat this procedure.



1 Engine stop switch



1 Speedometer

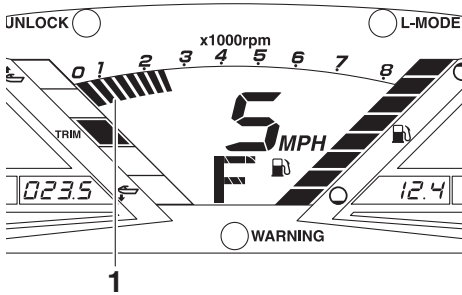
EJU31464

Tachometer

The tachometer shows the engine speed.

Instrument operation

The outer numbers $\times 1000$ r/min and display segments on the meter show the engine speed.

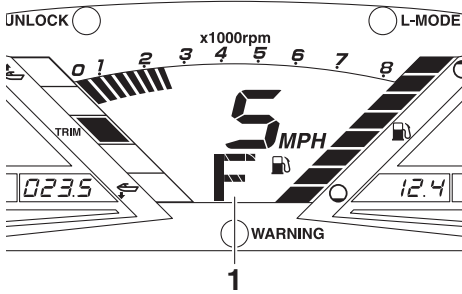


1 Tachometer

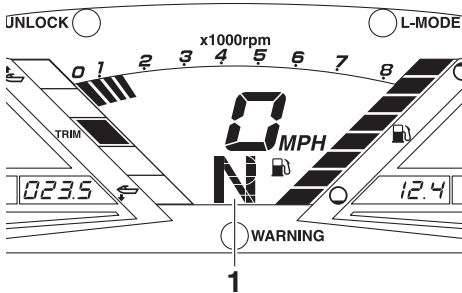
EJU43890

Shift indicator

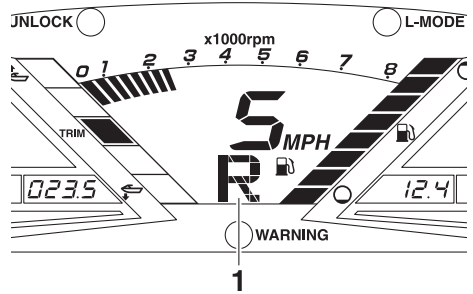
This indicator shows the reverse gate shift positions: "F" (forward), "N" (neutral), and "R" (reverse). (See page 31 for shifting procedures.)



1 "F" (Forward position)



1 "N" (Neutral position)

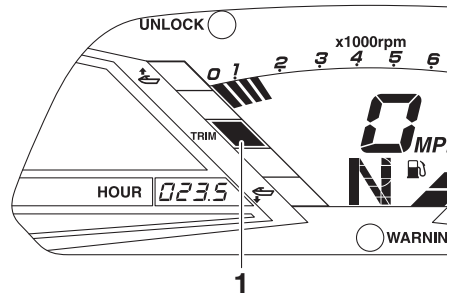


1 "R" (Reverse position)

EJU44010

Trim indicator

This indicator shows the trim angle of the jet thrust nozzle. One of the two upper display segments will be shown when the trim angle is increased, and one of the two lower display segments will be shown when the trim angle is decreased. When the neutral position of the jet thrust nozzle is selected, the middle display segment will be shown. (See page 33 for trim angle selection procedures.)



1 Trim indicator

EJU31515

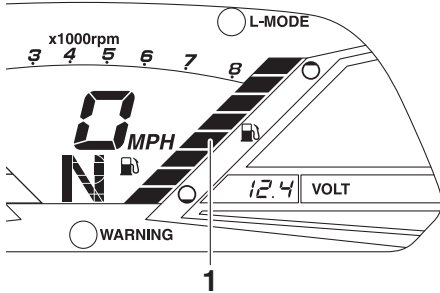
Fuel level meter

The fuel level meter shows the amount of fuel remaining in the fuel tank. The amount of remaining fuel is shown using eight display segments, which disappear two at a time as the fuel level decreases.

Instrument operation

TIP:

The accuracy of the fuel level meter varies depending on the operating conditions. Use this function as a reference only.

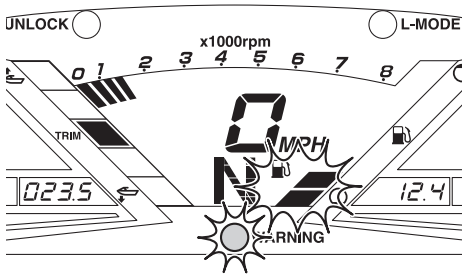


1 Fuel level meter

EJU44080

Fuel level warning

If the fuel remaining in the fuel tank drops to about 18 L (4.8 US gal, 4.0 Imp.gal), the lowest two fuel level segments, the fuel indicator, and the “WARNING” indicator light blink, and the buzzer sounds intermittently for 30 seconds.



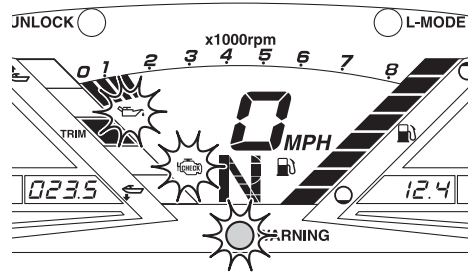
If the fuel level warning is activated, refill the fuel tank as soon as possible. (See page 50 for information on filling the fuel tank.)

After the fuel tank is refilled, the warning signals will be cleared when the engine is re-started.

EJU43720

Oil pressure warning

If the oil pressure drops significantly, the oil pressure warning indicator, the check engine warning indicator, and the “WARNING” indicator light blink, and the buzzer sounds intermittently for 30 seconds. At the same time, the maximum engine speed is limited.



If the oil pressure warning is activated, immediately reduce the engine speed, return to shore, and then check the engine oil level. (See page 52 for information on checking the engine oil level.) If the oil level is sufficient, have a Yamaha dealer check the watercraft.

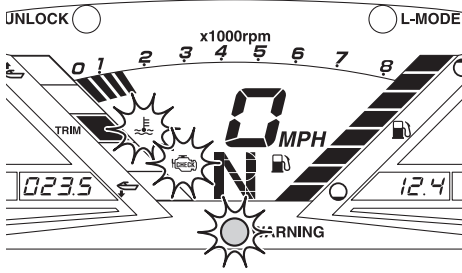
EJU43901

Engine overheat warning

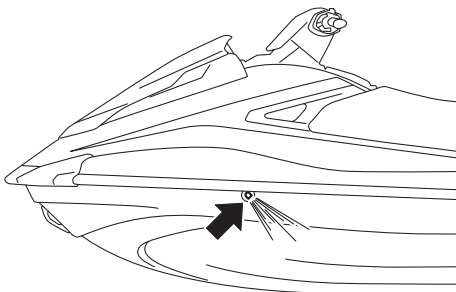
If the engine temperature rises significantly, the engine overheat warning indicator, the check engine warning indicator, and the “WARNING” indicator light stop blinking and remain on, and the buzzer sounds continuously. After 5 seconds, the engine overheat warning indicator and the “WARNING” indicator light stop blinking and remain on, and the buzzer sounds continuously. After 30 seconds, the buzzer stops. While the engine overheat

Instrument operation

warning is activated, the maximum engine speed is limited.



If the engine overheat warning is activated, immediately reduce the engine speed, return to shore, and then make sure that water is being discharged from the cooling water pilot outlet while the engine is running. If there is no discharge of water, stop the engine, and then check the jet intake for clogging. (See page 94 for information on the jet intake.) **NOTICE: If you cannot locate and correct the cause of the overheating, consult a Yamaha dealer. Continuing to operate at higher speeds could result in severe engine damage.** [ECJ00042]

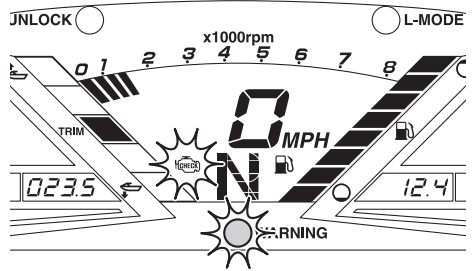


EJU43731

Check engine warning

If a sensor malfunction or a short circuit is detected, the check engine warning indicator and the "WARNING" indicator light blink, and the buzzer sounds intermittently for 30 seconds.

If the engine is stopped after the check engine warning is activated, the information display will indicate an error code.



If the check engine warning is activated, immediately reduce the engine speed, return to shore, and have a Yamaha dealer check the engine.

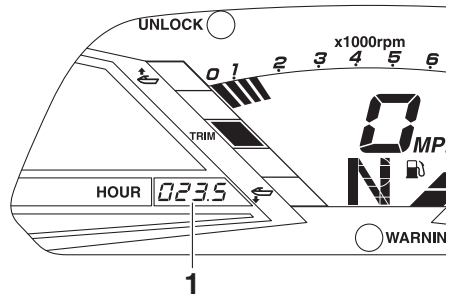
EJU43740

Hour meter

The hour meter shows the total number of hours that the engine has been running since the watercraft was new.

TIP:

The elapsed time will be kept even if the battery terminals have been disconnected.



1 Hour meter

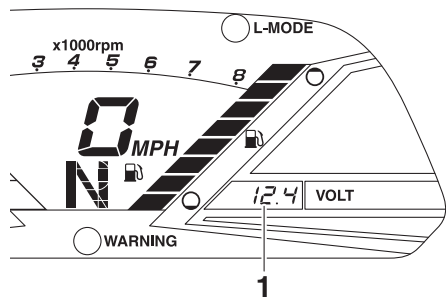
EJU43750

Voltmeter

The voltmeter shows the battery voltage. When the battery voltage is normal, the voltmeter displays approximately 12 volts.

Instrument operation

If the battery voltage has dropped significantly, “LO” is displayed on the voltmeter. If the battery voltage has risen significantly, “HI” is displayed. If “LO” or “HI” is displayed, immediately return to shore and have a Yamaha dealer service the watercraft.



1 Voltmeter

EJU40334

Equipment

EJU42203

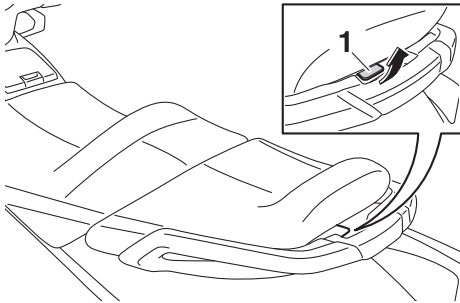
Seats

The front and rear seats are removable.

Remove the seats to access the engine compartment and removable watertight storage compartment.

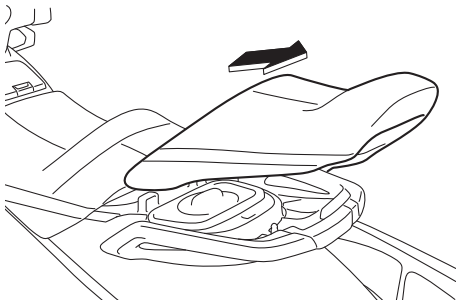
To remove the rear seat:

- (1) Pull the rear seat latch up, and then lift up the rear of the seat.



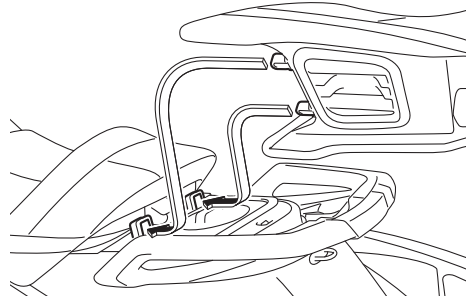
1 Seat latch

- (2) Pull the seat rearward and remove it.

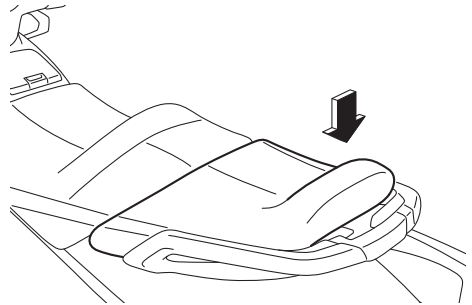


To install the rear seat:

- (1) Insert the projections on the front of the seat into the stays on the deck.

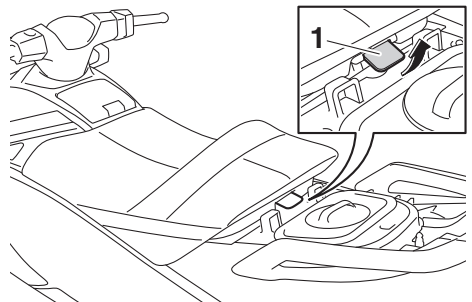


- (2) Push the rear of the seat down to securely lock it in place.



To remove the front seat:

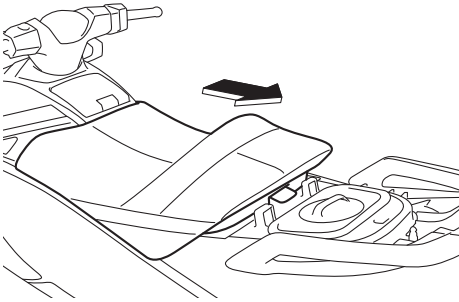
- (1) Remove the rear seat.
- (2) Pull the front seat latch up, and then lift up the rear of the seat.



1 Seat latch

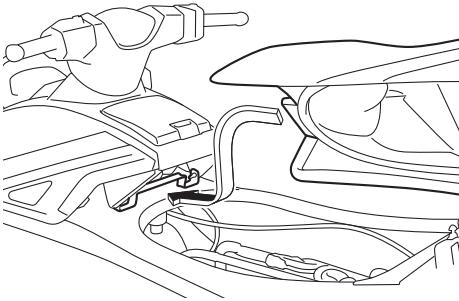
Equipment operation

- (3) Pull the seat rearward and remove it.

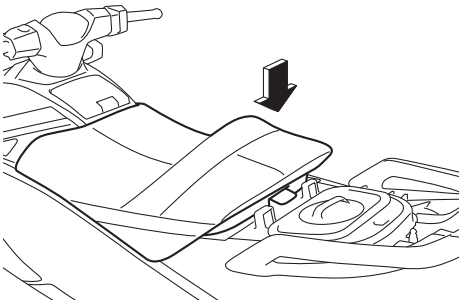


To install the front seat:

- (1) Insert the projection on the front of the seat into the stay on the deck.



- (2) Push the rear of the seat down to securely lock it in place.

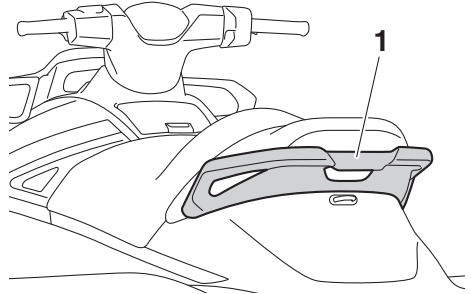


- (3) Securely install the rear seat in its original position.

EJU31364

Handgrip

The handgrip is used when boarding the watercraft from the water and when the spotter is facing rearward. **WARNING! Do not use the handgrip to lift the watercraft. The handgrip is not designed to support the watercraft's weight. If the handgrip breaks, the watercraft could fall, which could result in severe injury.** [EWJ00022]



1 Handgrip

EJU34865

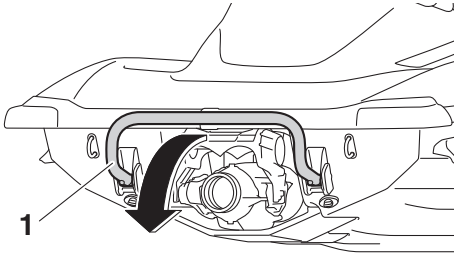
Reboarding step (VXR)

The reboarding step is used to assist in reboarding the watercraft from the water.

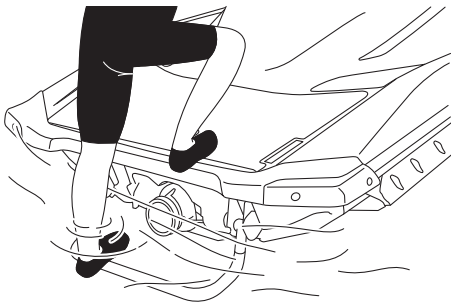
When boarding the watercraft, push the reboarding step down until it stops. The step returns automatically to its original position when released. **WARNING! Do not use the reboarding step to lift the watercraft. The reboarding step is not designed to support the watercraft's weight. If the reboarding**

Equipment operation

step breaks, the watercraft could fall, which could result in severe injury. [EWJ01212]



1 Reboarding step



ECJ00743

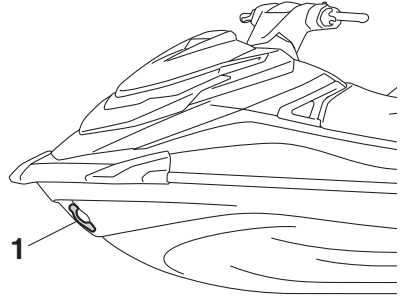
NOTICE

Use the reboarding step only to board the watercraft in the water. Do not use the reboarding step for any other purpose. The watercraft can be damaged.

EJU34873

Bow eye

The bow eye is used to attach a rope to the watercraft when transporting, mooring, or towing it in an emergency. (See page 98 for information on towing the watercraft.)

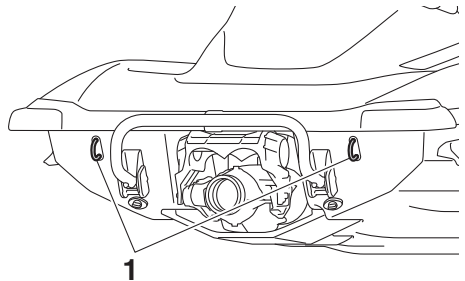


1 Bow eye

EJU34882

Stern eyes

The stern eyes are used to attach a rope to the watercraft when transporting or mooring it.



1 Stern eye

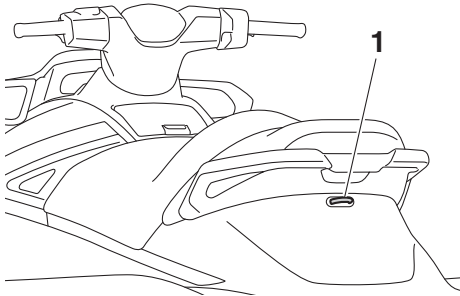
EJU40422

Cleat

The cleat is used to attach a ski rope to the watercraft when pulling a wakeboarder or water-skier. **WARNING! Do not use the cleat to lift the watercraft. The cleat is not designed to support the watercraft's weight. If the cleat breaks, the watercraft**

Equipment operation

could fall, which could result in severe injury. [EJWJ01511]



1 Cleat

EJU35147

Storage compartments

This watercraft is equipped with the following storage compartments.

Only the securely closed watertight storage compartment is waterproof. If you carry objects that must be kept dry, put them in a waterproof bag.

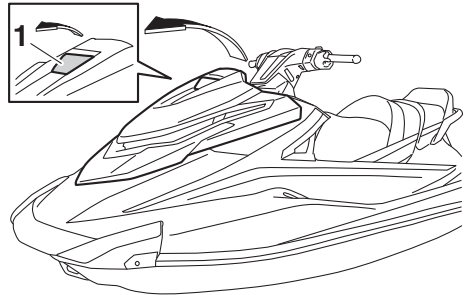
Make sure that the storage compartments are closed securely before operating the watercraft.

EJU43770

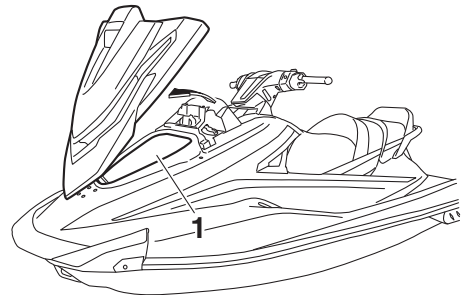
Bow storage compartment

The bow storage compartment is located under the hood.

To open the bow storage compartment:
Pull the hood latch up, and then lift up the rear of the hood.



1 Hood latch



1 Bow storage compartment

Bow storage compartment:

Capacity:

72.0 L (19.0 US gal, 15.8 Imp.gal)

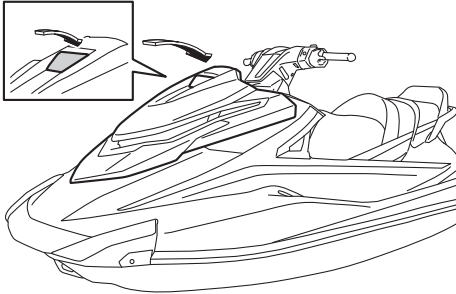
Load limit:

5.0 kg (11 lb)

Equipment operation

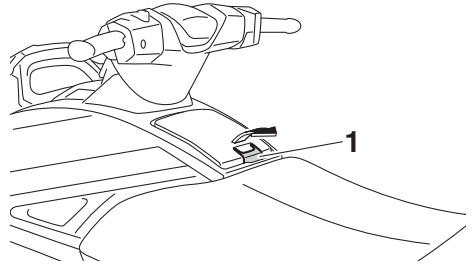
To close the bow storage compartment:

Return the hood to its original position, and then push the hood latch down to securely lock it in place.



To open the glove compartment:

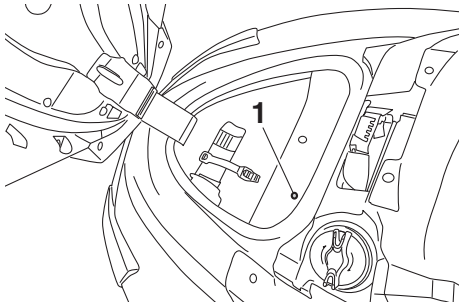
Pull the glove compartment latch up, and then lift up the lid.



1 Glove compartment latch

To drain water from the bow storage compartment:

(1) Remove the drain plug on the bottom of the storage compartment to drain the water into the engine compartment.



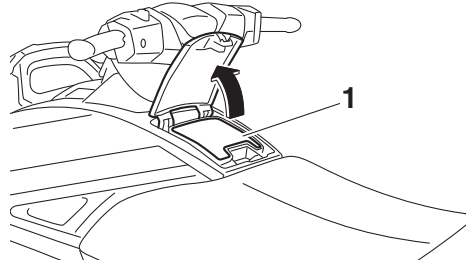
1 Drain plug

(2) Securely install the drain plug in its original position.

EJU43781

Glove compartment

The glove compartment is located in front of the seat.



1 Glove compartment

Glove compartment:

Capacity:

3.4 L (0.9 US gal, 0.7 Imp.gal)

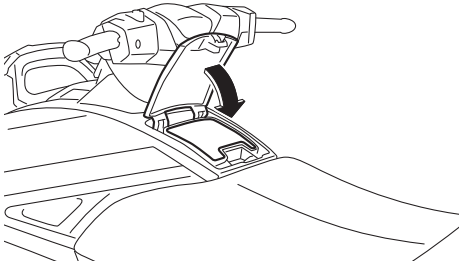
Load limit:

1.5 kg (3 lb)

Equipment operation

To close the glove compartment:

Push the lid down to securely lock it in place.



EJU37234

Watertight storage compartment

The watertight storage compartment is located under the rear seat.

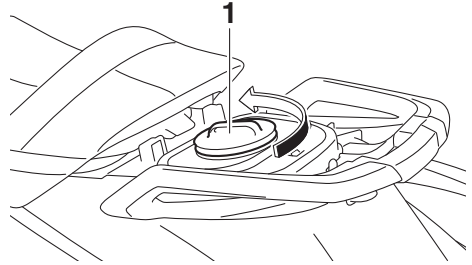
The compartment is watertight when the cap is closed securely.

The watertight storage compartment is removable.

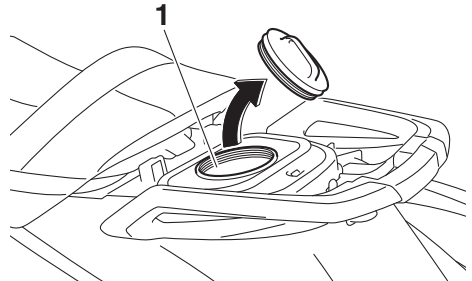
To open the watertight storage compartment:

- (1) Remove the rear seat. (See page 43 for seat removal and installation procedures.)

- (2) Loosen the cap and remove it.



1 Watertight storage compartment cap



1 Watertight storage compartment

Watertight storage compartment:

Capacity:

5.8 L (1.5 US gal, 1.3 Imp.gal)

Load limit:

3.0 kg (7 lb)

To close the watertight storage compartment:

- (1) Securely install the cap by tightening it until it stops.
- (2) Securely install the rear seat in its original position.

EJU43790

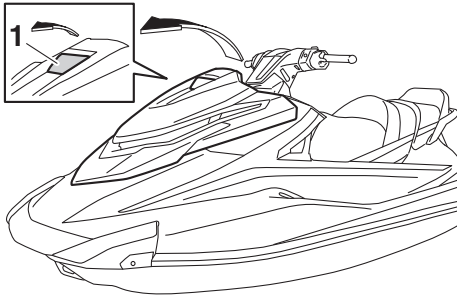
Fire extinguisher holder and cover

The fire extinguisher holder and cover are located in the bow storage compartment.

Equipment operation

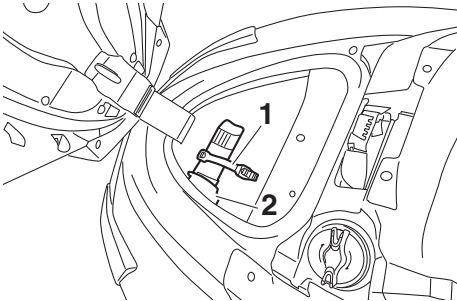
To use the fire extinguisher holder and cover:

- (1) Pull the hood latch up, and then lift up the rear of the hood.



1 Hood latch

- (2) Unhook the band and remove the fire extinguisher from the fire extinguisher cover.

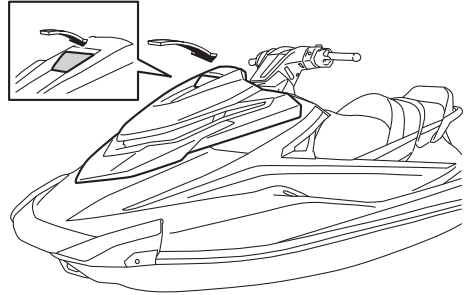


1 Band

2 Fire extinguisher holder and cover

- (3) Place the fire extinguisher in the fire extinguisher cover, and then securely fasten the fire extinguisher with the band.
- (4) Return the hood to its original position, and then push the hood latch down to securely lock it in place. Make sure that

the hood is securely closed before using the watercraft.



Operation and handling requirements

EJU31823

Fuel requirements

EJU43641

Fuel

EWJ00283

WARNING

- Gasoline and gasoline vapors are extremely flammable. To avoid fires and explosions and to reduce the risk of injury when refueling, follow these instructions.
- Gasoline is poisonous and can cause injury or death. Handle gasoline with care. Never siphon gasoline by mouth. If you should swallow some gasoline, inhale a lot of gasoline vapor, or get some gasoline in your eyes, see your doctor immediately. If gasoline spills on your skin, wash with soap and water. If gasoline spills on your clothing, change your clothes.

ECJ00322

NOTICE

- Do not use leaded gasoline. Leaded gasoline can seriously damage the engine.
- Avoid getting water and contaminants in the fuel tank. Contaminated fuel can cause poor performance and engine damage. Use only fresh gasoline that has been stored in clean containers.

Recommended fuel:

Regular unleaded gasoline with a minimum octane rating of

86

(Pump octane number) = $(R + M)/2$

90 (Research octane number)

Gasohol

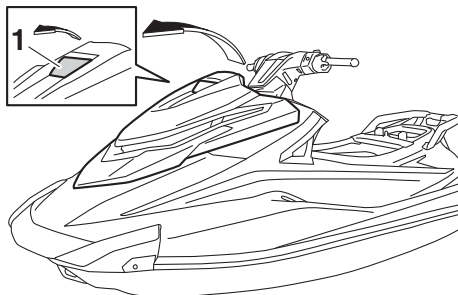
There are two types of gasohol: gasohol containing ethanol and that containing methanol.

Gasohol containing ethanol can be used if ethanol content does not exceed 10% and the fuel meets the minimum octane ratings. E-85 is a fuel blend containing 85% ethanol and therefore must not be used in this watercraft. All ethanol blends containing more than 10% ethanol can cause fuel system damage or engine performance problems.

Yamaha does not recommend gasohol containing methanol because it can cause fuel system damage and engine performance problems.

To fill the fuel tank:

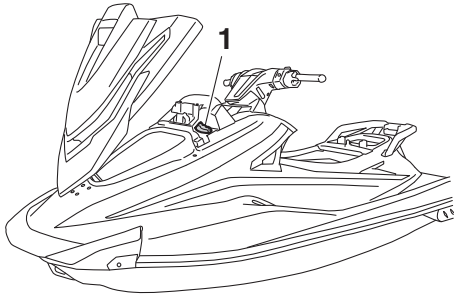
- (1) Before refueling, stop the engine. Do not stand or sit on the watercraft. Never refuel while smoking, or while in the vicinity of sparks, open flames, or other sources of ignition.
- (2) Place the watercraft in a well-ventilated area and in a horizontal position.
- (3) Remove the seats, and then check the fuel level. (See page 43 for seat removal and installation procedures.)
- (4) Pull the hood latch up, and then lift up the rear of the hood.



1 Hood latch

Operation and handling requirements

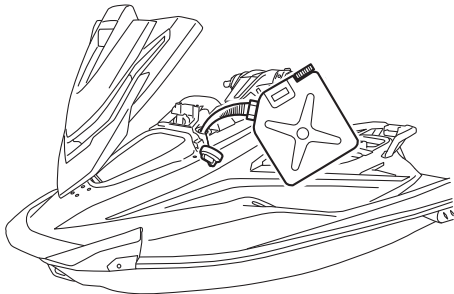
- (5) Loosen the fuel filler cap and remove it.



1 Fuel filler cap

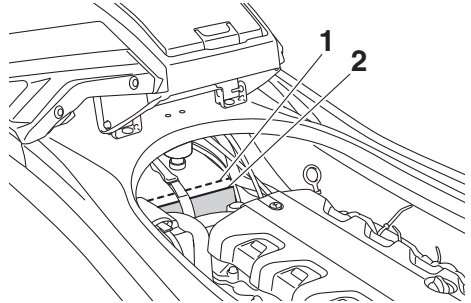
- (6) Slowly add fuel to the fuel tank.

Fuel tank capacity:
70 L (18.5 US gal, 15.4 Imp.gal)

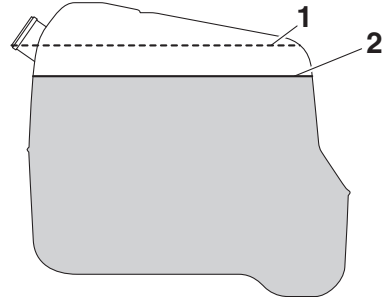


- (7) Stop filling when the fuel level reaches approximately 50 mm (2 in) from the top of the fuel tank. Do not overfill the fuel tank. Because fuel expands when it heats up, heat from the engine or the sun can cause fuel to spill out of the fuel tank.

Do not leave the watercraft with a full tank in direct sunlight.



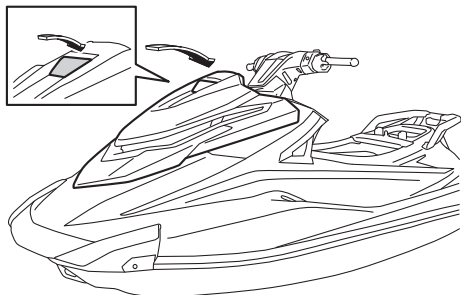
- 1 Top of the fuel tank
2 Approximately 50 mm (2 in) from top of the fuel tank



- 1 Top of the fuel tank
2 Approximately 50 mm (2 in) from top of the fuel tank
- (8) Wipe up any spilled fuel immediately with a dry cloth.
- (9) Securely install the fuel filler cap by tightening it until it clicks.
- (10) Return the hood to its original position, and then push the hood latch down to securely lock it in place. Make sure that the fuel filler cap and the hood are se-

Operation and handling requirements

curely closed before using the watercraft.



- (11) Securely install the seats in their original positions.

EJU40291

Engine oil requirements

EJU41513

Engine oil

ECJ00282

NOTICE

Use only 4-stroke engine oil. Usage of 2-stroke engine oil could result in severe engine damage.

Recommended engine oil type:
SAE 10W-30, 10W-40, 20W-40,
20W-50
Recommended engine oil grade:
API SE,SF,SG,SH,SJ,SL

TIP:

When the engine is operated at high speeds, some engine oil may be consumed. Be sure to check the engine oil level.

Checking the engine oil level

EWJ00341

! WARNING

Engine oil is extremely hot immediately after the engine is turned off. Coming in contact with or getting any engine oil on your clothes could result in burns.

ECJ01002

NOTICE

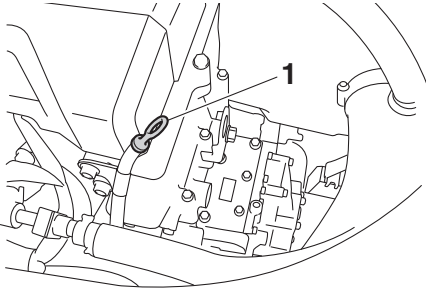
Make sure that debris and water do not enter the oil filler hole. Debris and water in the engine oil can cause serious engine damage.

To check the engine oil level:

- (1) Place the watercraft in a precisely level position on land with the engine stopped. If the engine was running, allow the engine oil to settle by waiting 5 minutes or more before checking the oil level.
- (2) Remove the seats. (See page 43 for seat removal and installation procedures.)

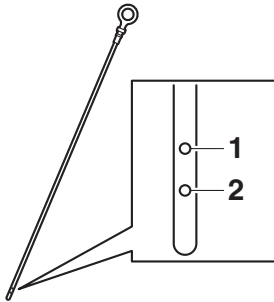
Operation and handling requirements

- (3) Remove the dipstick and wipe it clean.



1 Dipstick

- (4) Insert the dipstick back into the dipstick tube completely. Remove the dipstick again and make sure that the engine oil level is between the minimum and maximum level marks.

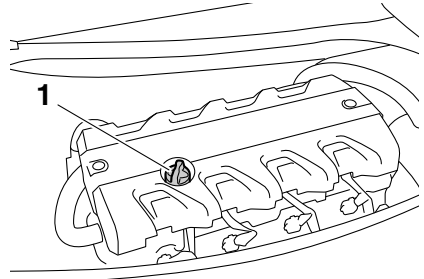


1 Maximum level mark

2 Minimum level mark

- (5) If the engine oil level is significantly above the maximum level mark, consult a Yamaha dealer. If the engine oil level is below the minimum level mark, add engine oil.

- (6) Loosen the engine oil filler cap and remove it.



1 Engine oil filler cap

- (7) Slowly add engine oil.

TIP:

The difference between the minimum and maximum level marks on the dipstick is equal to approximately 1 L (1.06 US qt, 0.88 Imp.qt) of engine oil.

- (8) Wait approximately 5 minutes to allow the engine oil to settle, and then check the engine oil level again.
- (9) Repeat steps 3–8 until the engine oil is at the proper level.
- (10) Securely install the engine oil filler cap by tightening it until it stops.
- (11) Securely install the seats in their original positions.

Operation and handling requirements

EJU40022

Draining the bilge water

ECJ01302

NOTICE

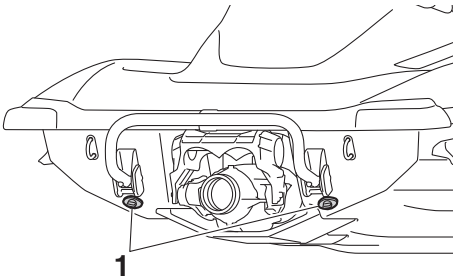
Do not run the engine at full throttle when bilge water remains in the engine compartment. The bilge water can splash into the engine, which can result in severe damage.

EJU40035

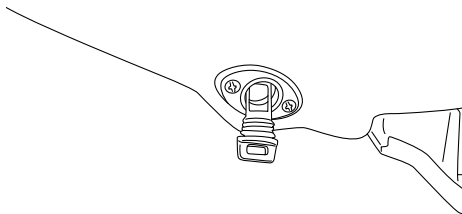
Draining the bilge water on land

To drain the bilge water on land:

- (1) Loosen the stern drain plugs and remove them.



1 Stern drain plug



- (2) Raise the bow of the watercraft, such as by placing the watercraft on a slope, to drain the bilge water from the engine compartment.
- (3) After the bilge water has drained from the stern drain plug holes, wipe up any re-

maining moisture in the engine compartment with a dry cloth.

- (4) Securely install the stern drain plugs by tightening them until they stop. **NOTICE:** Before installing the stern drain plugs, clean the drain plug threads and the O-rings on the plugs to remove any foreign materials, such as dirt or sand. Otherwise, the stern drain plugs could be damaged, allowing water to enter the engine compartment. Check the O-rings on the stern drain plugs and make sure that the plugs are tightened securely before launching the watercraft. Otherwise, water may flood the engine compartment and cause the watercraft to submerge. [ECJ00363]

EJU40535

Draining the bilge water on water

A small quantity of bilge water will remain in the engine compartment even after the bilge water is drained on water. To completely drain the bilge water, remove the watercraft from the water and drain the bilge water on land.

Jet vacuum bilge draining system

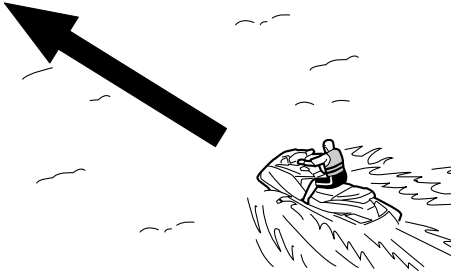
While the watercraft is operating, bilge water in the engine compartment is drawn in by the vacuum that is generated in the jet pump and discharged from the watercraft through the jet thrust nozzle.

To drain the bilge water on water:

Operate the watercraft as straight as possible and above planing speed for at least 2 minutes. **NOTICE:** Do not run the engine at full throttle for at least 1 minute after the engine has been restarted. Bilge water in the engine compartment can splash into the

Operation and handling requirements

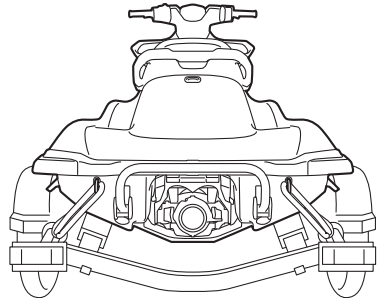
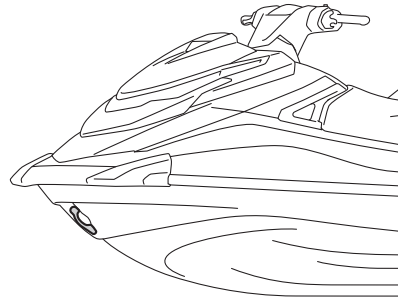
engine, which can result in severe damage. [ECJ00554]



EJU42432

Transporting on a trailer

When transporting the watercraft on a trailer, secure the tie downs to the trailer through the bow eye and stern eyes. **NOTICE: Do not attach ropes or tie downs to any part of the watercraft other than the bow eye and stern eyes to secure the watercraft to the trailer. Otherwise, the watercraft may be damaged. Wrap the ropes or tie downs with towels or rags where they touch the body of the watercraft to avoid scratches or damage.** [ECJ02150]



First-time operation

EJU36666

Engine break-in

ECJ00432

NOTICE

Failure to perform the engine break-in could result in reduced engine life or even severe engine damage.

The engine break-in is essential to allow the various components of the engine to wear and polish themselves to the correct operating clearances. This ensures proper performance and promotes longer component life.

To perform the engine break-in:

- (1) Check the engine oil level. (See page 52 for information on checking the engine oil level.)
- (2) Launch the watercraft and start the engine. (See page 69 for information on starting the engine.)
- (3) For the first 5 minutes, operate with the engine speed at 2000 r/min.
- (4) For the next 30 minutes, operate with the engine speed below 5000 r/min.
- (5) For the next 1 hour, operate with the engine speed below 6000 r/min.

After the engine break-in is complete, the watercraft can be operated normally.

Pre-operation checks

EJU31982

EWJ00412



Failure to inspect or maintain the watercraft properly increases the possibility of an accident or damage to the watercraft. Do not operate the watercraft if you find any problem. If a problem cannot be corrected by the procedures provided in this manual, have the watercraft inspected by a Yamaha dealer.

EJU41234

Pre-operation checklist

Before using this watercraft, be sure to perform the checks in the following checklist.

ITEM	ROUTINE	PAGE
PRE-LAUNCH CHECKS		
Engine compartment	Ventilate the engine compartment. Check inside the engine compartment for damage.	59
Fuel system	Check the fuel system for leakage. Check the fuel level in the fuel tank.	59
Water separator	Check the water separator for water.	60
Engine unit	Check the exterior of the engine unit for damage.	60
Engine oil level	Check the engine oil level.	60
Bilge water	Check the engine compartment for bilge water.	60
Battery	Check the battery connections and electrolyte level.	60
Steering system	Check the steering system for proper operation.	61
RiDE lever	Check the RiDE lever for proper operation.	62
Throttle lever	Check the throttle lever for proper operation.	62
Remote control transmitter	Check the remote control transmitter for proper operation.	62
Engine shut-off cord (lanyard)	Check the engine shut-off cord (lanyard) for damage.	62
Switches	Check the start switch, engine stop switch, and engine shut-off switch for proper operation.	63
Storage compartments	Check the storage compartments for damage and water.	63
Fire extinguisher holder, cover, and band	Check the fire extinguisher holder, cover, and band for damage.	63
Fire extinguisher	Check the condition of the fire extinguisher.	64
Safety equipment	Check that safety equipment meeting the applicable regulations is on board.	64
Hull and deck	Check the hull and deck for damage.	64
Jet intake	Check the jet intake for damage and clogging.	64
Jet thrust nozzle and reverse gate	Check the jet thrust nozzle and reverse gate for damage.	64
Stern drain plugs	Check the stern drain plugs for damage and foreign material and check that they are securely installed.	64

Pre-operation checks

ITEM	ROUTINE	PAGE
Hood	Check that the hood is securely closed.	65
Front and rear seats	Check that the seats are securely installed.	43
POST-LAUNCH CHECKS		
Cooling water pilot outlet	Check that water is discharged from the cooling water pilot outlet while the engine is running.	65
Multifunction information center	Check the multifunction information center for proper operation.	65
Shift system	Check the shift system for proper operation.	66
Trim indicator	Check the trim indicator for proper operation.	67
Engine idling speed	Check the engine idling speed.	67

TIP:

To ensure safety and reliability, pre-operation checks should be made each time the watercraft is used.

Pre-operation checks

EJU32282

Pre-operation check points

EJU42382

Pre-launch checks

Perform the pre-launch checks in the pre-operation checklist while the watercraft is on land.

To perform the pre-launch checks:

- (1) Remove the seats and removable watertight storage compartment. (See page 43 for seat removal and installation procedures and page 48 for information on the removable watertight storage compartment.)
- (2) Perform the checks and make sure that there are no malfunctioning items or other problems.
- (3) After completing these checks, securely install the removable watertight storage compartment and seats in their original positions.

EJU32334

Engine compartment check

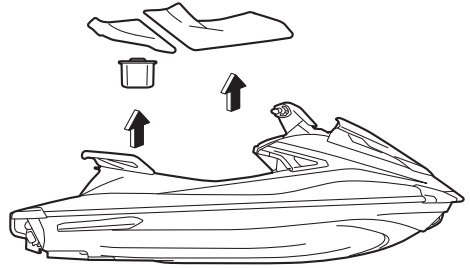
EWJ00462



Failure to ventilate the engine compartment could result in a fire or explosion. Do not start the engine if there is a fuel leak.

Ventilate the engine compartment. Leave the engine compartment open for a few minutes to allow any fuel vapors to escape.

Make sure that there is no damage inside the engine compartment.



EJU34215

Fuel system checks

EWJ00382



Leaking fuel can result in fire or explosion.

- Check for fuel leakage regularly.
- If any fuel leakage is found, the fuel system must be repaired by a qualified mechanic. Improper repairs can make the watercraft unsafe to operate.

Make sure that there is no damage, leakage, or other problem in the fuel system.

Check:

- Fuel filler cap and seal for damage
- Fuel tank for damage and leakage
- Fuel hoses and joints for damage and leakage
- Fuel tank breather hose for damage and leakage

EJU36875

Fuel level check

Check the fuel level in the fuel tank.

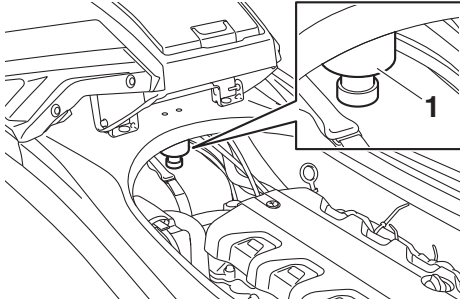
Add fuel if necessary. (See page 50 for information on filling the fuel tank.)

Pre-operation checks

EJU32424

Water separator check

Make sure that no water has collected in the water separator. If water has collected in the water separator, drain it. (See page 29 for information on draining the water separator.)



1 Water separator

EJU40182

Engine unit check

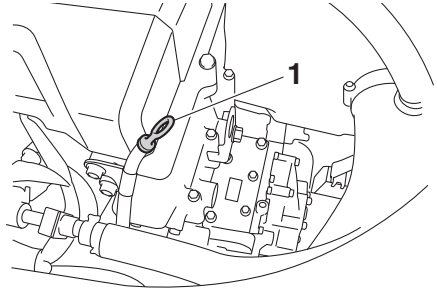
Check the exterior of the engine unit for damage or other problem.

EJU36886

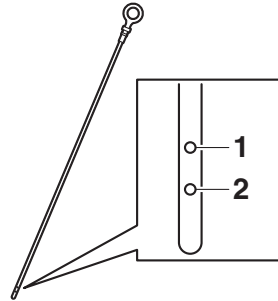
Engine oil level check

Make sure that the engine oil level is between the minimum and maximum level marks on

the dipstick. (See page 52 for information on checking the engine oil level.)



1 Dipstick



1 Maximum level mark

2 Minimum level mark

EJU32456

Bilge water check

Make sure that no bilge water has collected in the engine compartment. If bilge water has collected in the engine compartment, drain it. (See page 54 for information on draining the bilge water.)

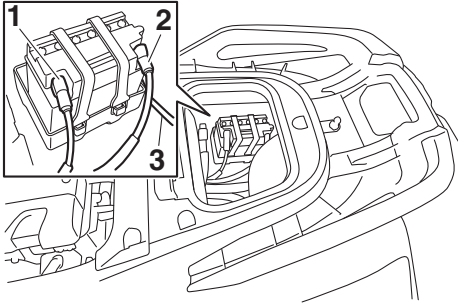
EJU32485

Battery checks

Make sure that the battery terminals and breather hose are not damaged and that the battery leads and breather hose are connected properly. **WARNING! Fire or explosion could result if the breather hose is dam-**

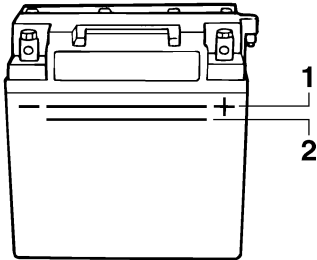
Pre-operation checks

aged, obstructed, or not connected properly. [EWJ00452]



- 1 Negative (-) battery terminal: Black lead
- 2 Positive (+) battery terminal: Red lead
- 3 Breather hose

Make sure that the electrolyte level is between the minimum and maximum level marks. **WARNING! Never operate the watercraft if the battery does not have sufficient power to start the engine or if it shows any other signs of decreased power. Loss of battery power may leave you stranded.** [EWJ01241]



- 1 Maximum level mark
- 2 Minimum level mark

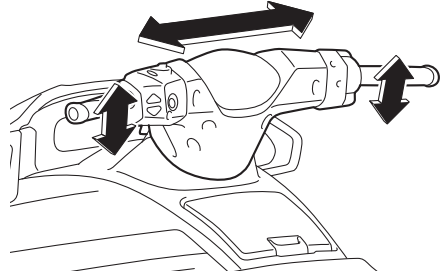
Make sure that the battery is securely held in place.

EJU32614

Steering system checks

Turn the handlebars to the right and left several times to make sure that operation is smooth and unrestricted throughout the

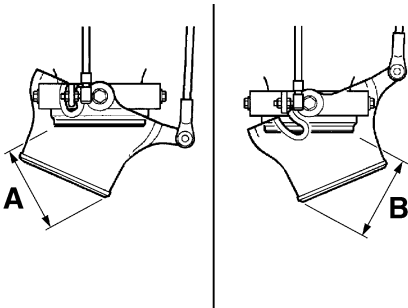
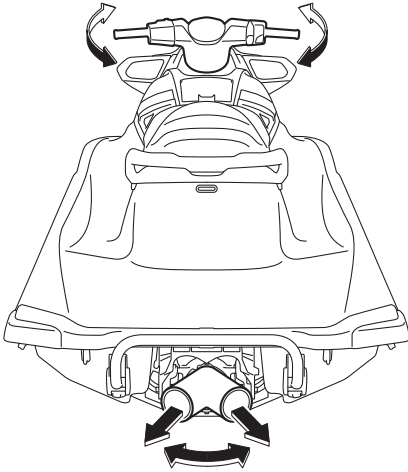
whole range, and that the free play is not excessive.



Turn the handlebars as far as possible to the right and left to make sure that the jet thrust nozzle moves as the handlebars are turned, and that there is no difference between the

Pre-operation checks

right and left fully turned positions of the jet thrust nozzle.



Difference between fully turned positions of jet thrust nozzle (distances A and B):

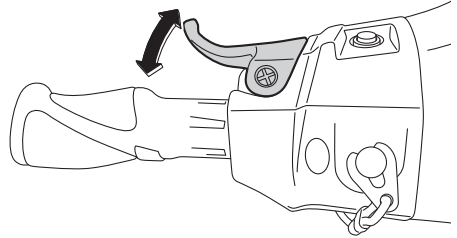
Maximum 5 mm (0.20 in)

EJU43212

RiDE lever checks

Operate the RiDE lever several times to make sure that operation is smooth throughout the whole range. Also, make sure that the RiDE

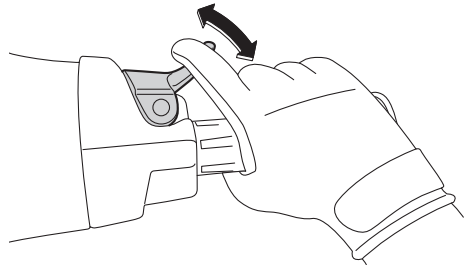
lever returns automatically to its fully closed position when released.



EJU42181

Throttle lever checks

Operate the throttle lever several times to make sure that operation is smooth throughout the whole range. Also, make sure that the throttle lever returns automatically to its fully closed (idle) position when released.



EJU40113

Remote control transmitter check

Make sure that the remote control transmitter operates properly. (See page 26 for Yamaha Security System setting procedures and page 35 for Low RPM Mode activation procedures.)

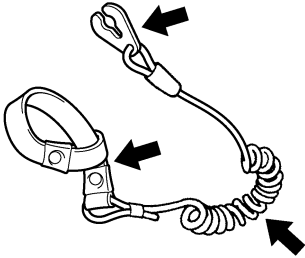
EJU32664

Engine shut-off cord (lanyard) check

Make sure that the engine shut-off cord (lanyard) is not damaged. If the cord is damaged, replace it. **WARNING! Never try to repair the engine shut-off cord (lanyard) or tie it together. The engine shut-off cord (lan-**

Pre-operation checks

yard) may not pull free when the operator falls off, allowing the watercraft to continue to run and cause an accident. [EWJ01221]



EJU32676

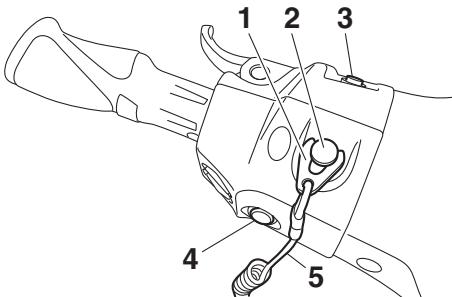
Switch checks

ECJ01311

NOTICE

Do not run the engine over 4000 r/min on land. Also, do not run the engine for more than 15 seconds without supplying water, otherwise the engine could overheat.

Check the start switch, the engine stop switch, and the engine shut-off switch for proper operation. (See pages 27 to 27 for information on operating each switch.)



- 1 Clip
- 2 Engine shut-off switch
- 3 Start switch
- 4 Engine stop switch
- 5 Engine shut-off cord (lanyard)

To check the operation of the switches:

- (1) If the lock mode is selected for the Yamaha Security System setting, select the unlock mode. (See page 26 for Yamaha Security System setting procedures.)
- (2) Push the start switch to make sure that the engine starts.
- (3) As soon as the engine starts running, push the engine stop switch to make sure that the engine stops immediately.
- (4) Restart the engine, and then pull the engine shut-off cord (lanyard) to remove the clip from the engine shut-off switch to make sure that the engine stops immediately.

EJU40102

Storage compartment checks

Make sure that the storage compartments are not damaged and that water has not collected in the compartments. (See page 46 for information on the storage compartments.)

EJU43800

Fire extinguisher holder, cover, and band checks

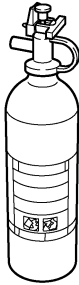
Make sure that the fire extinguisher holder, cover, and band are not damaged and that the fire extinguisher is securely held in place using the band. (See page 48 for information on the fire extinguisher holder, cover, and band.)

Pre-operation checks

EJU32544

Fire extinguisher check

Check that there is a full fire extinguisher on board.



To check the fire extinguisher, see the instructions supplied by the fire extinguisher manufacturer. Always keep the fire extinguisher secured in the holder with its cover in place.

Always carry a fire extinguisher on board. A fire extinguisher is not standard equipment with this watercraft. If you do not have one, contact a Yamaha dealer or a fire extinguisher dealer to obtain one meeting the proper specifications.

EJU40122

Safety equipment check

Check that safety equipment meeting the applicable regulations is on board.

EJU32353

Hull and deck check

Check the hull and deck for damage or other problem.

EJU32657

Jet intake checks

Make sure that the jet intake is not damaged or clogged with weeds or debris. If the jet intake is clogged, clean it. (See page 94 for information on the jet intake.)

EJU43220

Jet thrust nozzle and reverse gate check

Check the jet thrust nozzle and reverse gate for damage or other problem.

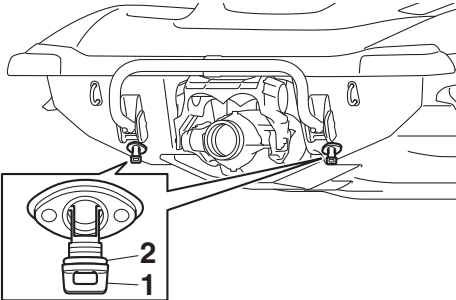
EJU32477

Stern drain plug checks

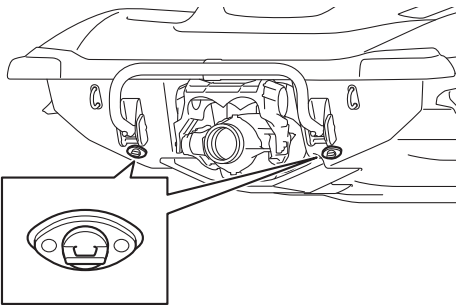
Loosen the stern drain plugs and remove them, and then make sure that the plugs and O-rings on the plugs are not damaged and that there is no foreign material on the threads or O-rings on the plugs. **NOTICE:** Before installing the stern drain plugs, clean the drain plug threads and the O-rings on the plugs to remove any foreign materials, such as dirt or sand. Otherwise, the stern drain plugs could be damaged, allowing water to enter the engine compartment. Check the O-rings on the stern drain plugs and make sure that the plugs are tightened securely before launching the watercraft. Otherwise, water may flood the engine compartment and cause the watercraft to submerge. [ECJ00363]

Pre-operation checks

Securely install the stern drain plugs by tightening them until they stop.



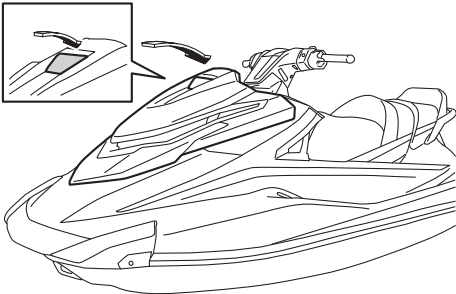
- 1 Stern drain plug
- 2 O-ring



EJU43810

Hood check

Push down the hood latch and make sure that it is securely closed.



EJU40146

Post-launch checks

Perform the post-launch checks in the pre-operation checklist while the watercraft is in the water and the engine is running.

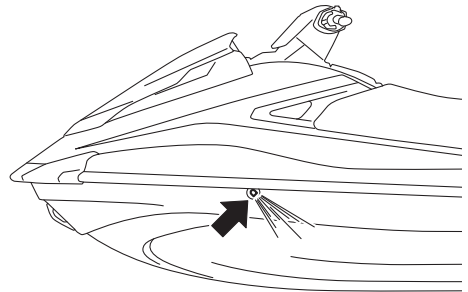
To perform the post-launch checks:

- (1) Launch the watercraft. (See page 69 for information on launching the watercraft.)
- (2) Perform the checks and make sure that there are no malfunctioning items or other problems.

EJU40553

Cooling water pilot outlet check

Make sure that water is discharged from the cooling water pilot outlet while the engine is running. (See page 29 for information on the cooling water pilot outlet.)



EJU32715

Multifunction information center check

Make sure that the multifunction information center operates properly. (See page 37 for information on proper operation of the multifunction information center.)



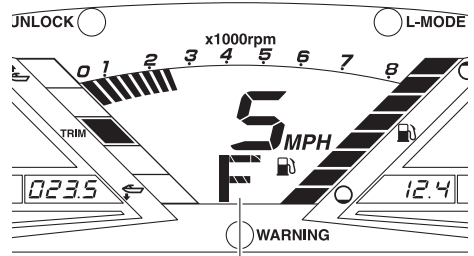
Pre-operation checks

EJU43391

Shift system check

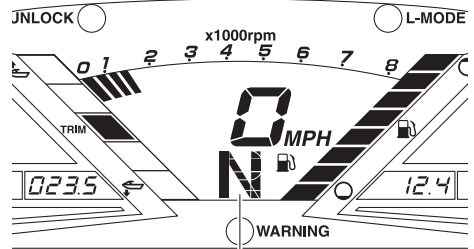
Operate the throttle lever and RiDE lever, and check that the watercraft moves or does not move according to the displayed shift indicator. (See page 31 for shift system operation procedures.) **WARNING! To avoid collisions, operate at safe speeds and keep a**

safe distance away from people, objects, and other watercraft. [EJVJ01860]



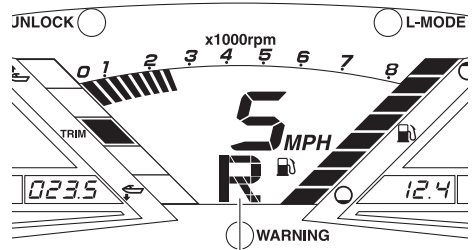
1

1 "F" (Forward position)



1

1 "N" (Neutral position)



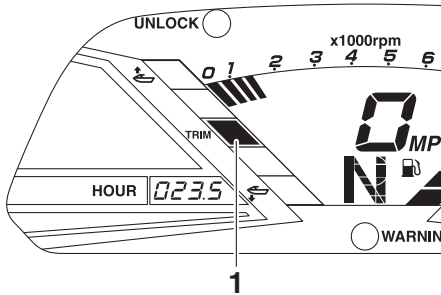
1

1 "R" (Reverse position)

EJU43400

Trim indicator check

Operate the electric trim switches and check that the trim indicator shows the correct trim angle of the jet thrust nozzle. (See page 33 for electric trim system operation procedures.)



1 Trim indicator

EJU40172

Engine idling speed check

Start the engine and warm it up. Use the tachometer in the multifunction information center to make sure that the engine idling speed is not significantly above or below the specified range.

Engine idling speed:
1300 ±100 r/min

Operation

EJU32903

Operating your watercraft

EWJ00511



Before operating your watercraft, become familiar with all of the controls. Consult a Yamaha dealer about any control or function that you do not fully understand. Failure to understand how the controls work could cause an accident or prevent you from avoiding an accident.

EJU32965

Getting to know your watercraft

Operating your watercraft requires skills acquired through practice over a period of time. Take the time to learn the basic techniques well before attempting more difficult maneuvers.

Operating your new watercraft can be a very enjoyable activity, providing you with hours of pleasure. However, it is essential to familiarize yourself with the operation of the watercraft to achieve the skill level necessary to enjoy riding safely.

Before operating this watercraft, read this owner's/operator's manual, the Riding Practice Guide, the Riding Instruction card, and all labels on the watercraft. Pay particular attention to the safety information beginning on page 10. These materials should give you an understanding of the watercraft and its operation.

Remember: This watercraft is designed to carry the operator and up to 2 passengers. Never exceed the maximum load limit or allow more than 3 persons (or 2 persons if a wakeboarder or water-skier is being pulled) to ride the watercraft at any time.

Maximum load:
240 kg (530 lb)
Load is the total weight of cargo, operator, and passengers.

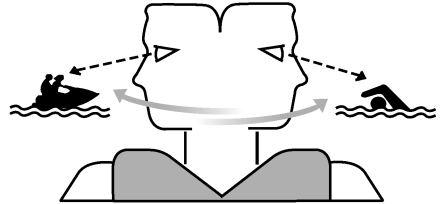
EJU33006

Learning to operate your watercraft

Before operating the watercraft, always perform the pre-operation checks listed on page 57. The short time spent checking the watercraft will reward you with added safety and reliability.

Check local laws before operating your watercraft.

Operate defensively at safe speeds and keep a safe distance away from people, objects, and other watercraft. Select a wide area to learn in, where there is good visibility and light boat traffic.



Use the buddy system—operate with someone nearby. Scan constantly for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.

You should grip the handlebars firmly and keep both feet on the floor of the footwell. Do not attempt to ride with passengers until your operating skills are fully developed.

EJU40212

Riding position

Operator riding position

The operator should grip the handlebars firmly with both hands and sit astride the seat with both feet on the floor of the footwell.



Passenger riding position

The passenger(s) should hold on firmly, either to the person in front of them or to the hand-grip provided, and sit astride the seat with their feet on the floor of the footwell. Never allow a passenger to ride in front of the operator. (See page 17 for information on the riding position when pulling a wakeboarder or water-skier.)



EJU32803

Launching the watercraft

When launching the watercraft, make sure that there are no obstacles around you.

If the watercraft is launched from a trailer, someone should make sure that waves do not push the watercraft into the trailer.

EJU36346

Starting the engine on water

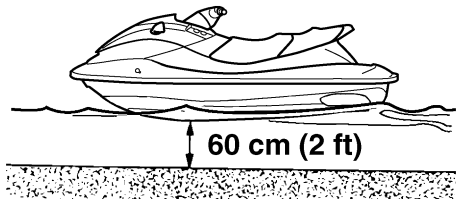
EWJ01531



Do not apply throttle when anyone is at the rear of the watercraft. Turn the engine off or keep it at idle. Water and debris exiting the jet thrust nozzle can cause severe injury.

To start the engine:

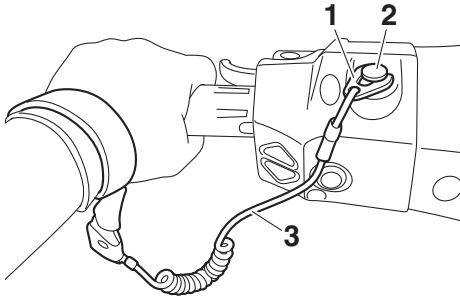
- (1) If the lock mode is selected for the Yamaha Security System setting, select the unlock mode. (See page 26 for Yamaha Security System setting procedures.)
- (2) Move the watercraft to an area that is free from weeds and debris, and has a water depth of at least 60 cm (2 ft) from the bottom of the watercraft. **NOTICE: Never run the engine in water that is less than 60 cm (2 ft) deep from the bottom of the watercraft, otherwise pebbles or sand could be sucked into the jet intake, causing impeller damage and engine overheating.** [ECJ00473]



- (3) Attach the engine shut-off cord (lanyard) to your left wrist, and then attach the clip to the engine shut-off switch. (See page 27 for information on operating the engine shut-off switch.) **WARNING! Check that the engine shut-off cord (lanyard)**

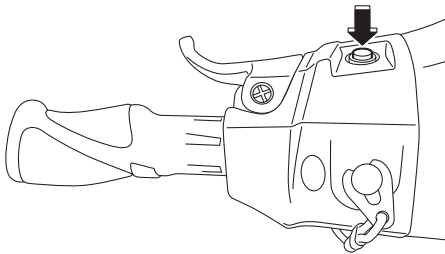
Operation

is attached correctly. If the engine shut-off cord (lanyard) is not attached correctly, it may not pull free when the operator falls off, allowing the watercraft to continue to run and cause an accident. [EWJ00582]



- 1 Clip
- 2 Engine shut-off switch
- 3 Engine shut-off cord (lanyard)

- (4) With the throttle lever released, push the start switch (green button) to start the engine. (See page 27 for information on operating the start switch.)

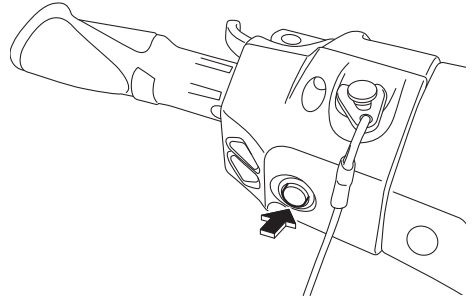


EJU32863

Stopping the engine

Release the throttle lever, and then push the engine stop switch (red button) to stop the engine. **WARNING! You need throttle to steer. Shutting the engine off can cause you to hit an obstacle you are attempting**

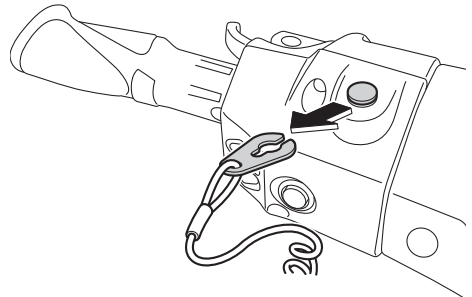
to avoid. A collision could result in severe injury or death. [EWJ00602]



EJU32873

Leaving the watercraft

If leaving the watercraft, remove the clip from the engine shut-off switch to prevent accidental starting or unauthorized operation by children or others.

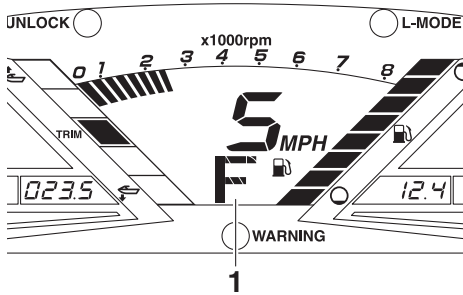


EJU43410

Operating the watercraft

When the throttle lever is squeezed, the “F” (forward) shift indicator will be displayed in the multifunction display and the watercraft will move forward. While the “F” (forward) shift indicator is displayed, the watercraft will move forward at trolling speed even if the throttle lever is in the fully closed (idle) posi-

tion. (See page 31 for shift system operation procedures.)



1 "F" (Forward position)



EJU43421

Turning the watercraft

EWJ01781

WARNING

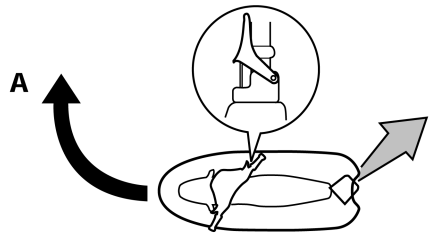
- Do not release the throttle lever when trying to steer away from objects—you need throttle to steer. A collision could result in severe injury or death.
- When operating at higher speeds, make gradual turns or slow down before turning. Sharp high-speed turns may cause the watercraft to slide sideways or spin, throwing the operator and passenger(s) overboard, which could cause an injury.
- Take early action to avoid collisions. The RiDE system is not a braking device for avoiding dangerous situations.

Steering control depends on the combination of handlebar position and the amount of throttle.

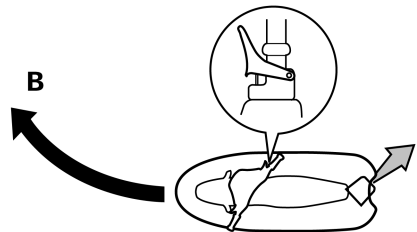
Water sucked in through the intake grate is pressurized by the impeller in the jet pump. As the pressurized water is expelled from the pump through the jet thrust nozzle, it creates thrust to move and steer the watercraft. The higher the engine speed, the more thrust produced.

The amount of jet thrust, in addition to the position of the handlebars, determines how sharply you turn.

A. More throttle produces higher thrust, so the watercraft will turn more sharply.



B. Less throttle produces lower thrust, so the watercraft will turn more gradually.

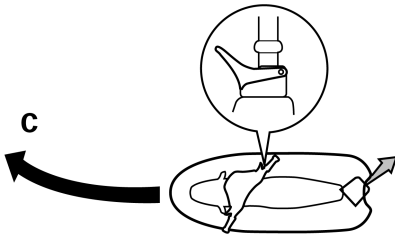


C. Releasing the throttle lever completely produces only minimum thrust. If you are traveling at speeds above trolling, you will have rapidly decreasing ability to

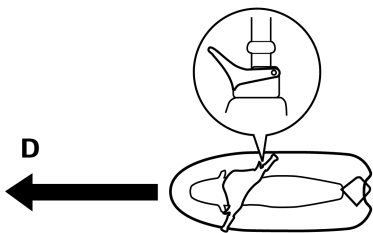
Operation

steer without throttle. You may still have some turning ability immediately after releasing the throttle lever, but once the engine slows down, the watercraft will no longer respond to handlebar input until you apply throttle again or you reach trolling speed.

At trolling speed, the watercraft can be turned gradually by handlebar position alone using just the amount of thrust available at idle.



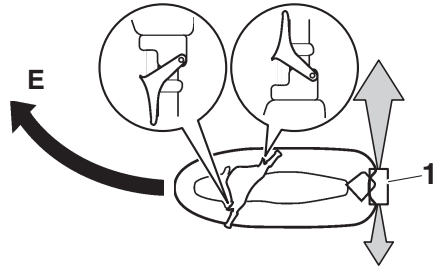
- D. If the engine is stopped while riding, there is no thrust. The watercraft will go straight even though the handlebars are turned.



You need throttle to steer.

- E. If the RiDE lever is squeezed and the handlebars are turned when the watercraft is cruising at planing speed, the wa-

tercraft will turn gradually while slowing down.



1 Reverse gate

This model is equipped with the Yamaha Engine Management System (YEMS) that includes an off-throttle steering (OTS) system. It will activate at planing speeds should you attempt to steer the watercraft after releasing the throttle lever (see condition C above).

The OTS system assists in turning by continuing to supply some thrust while the watercraft is decelerating, but you can turn more sharply if you apply throttle while turning the handlebars. The OTS system does not function below planing speeds or when the engine is off. Once the engine slows down, the watercraft will no longer turn in response to handlebar input until you apply throttle again or you reach trolling speed.

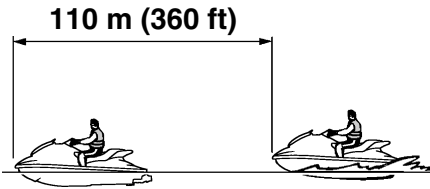
EJU43251

Stopping the watercraft

The watercraft is not equipped with a separate braking system. The watercraft slows down by water resistance or, when operating in reverse, by the water jet. The watercraft slows down as soon as the throttle lever is released, but will coast for a distance before fully stopping. If you are not sure you can stop in time before hitting an obstacle, apply throttle and turn in another direction.

From full speed, the watercraft comes to a complete stop due to water resistance in ap-

proximately 110 m (360 ft) after the throttle lever is released or the engine is stopped, although this distance will vary depending on many factors, including gross weight, water surface conditions, and wind direction.



If the RiDE lever is squeezed to slow down, the stopping distance is approximately 30% shorter than when the RiDE lever is not used. However, this distance will vary depending on many factors, including gross weight, water surface conditions, and wind direction.

EWJ01791

WARNING

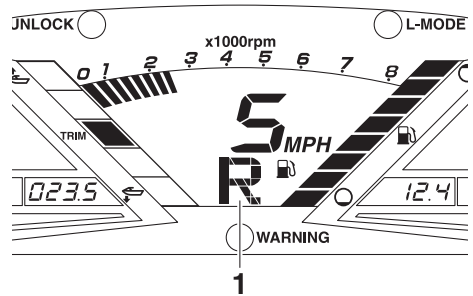
- Allow adequate stopping distance.
- Take early action to avoid collisions. Remember, watercraft and other boats do not have brakes.
- Operate defensively at safe speeds and keep a safe distance away from people, objects, and other watercraft to give you time to stop.
- Do not shut the engine off when slowing down in case you need engine power to steer away from a boat or other obstacle that comes into your path.
- To avoid rear-end collisions while operating the watercraft, check behind you before using the RiDE lever to slow down or stop the watercraft.

EJU43441

Operating the watercraft in reverse or neutral

Operating in reverse

When the RiDE lever is squeezed, the “R” (reverse) shift indicator will be displayed in the multifunction display and the watercraft will move in reverse. (See page 31 for shift system operation procedures.)



- 1 “R” (Reverse position)



Make sure that there are no obstacles or people behind you before shifting into reverse.

TIP:

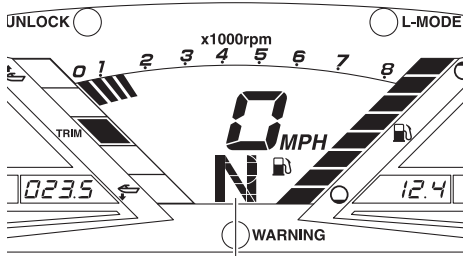
This model is equipped with a function which limits the engine speed in reverse.

Operating in neutral

When the RiDE lever is squeezed lightly and released, the “N” (neutral) shift indicator will be displayed in the multifunction display and the watercraft will stop in its current location.

Operation

(See page 31 for shift system operation procedures.)



1 "N" (Neutral position)



TIP:

This model is equipped with a function which limits the engine speed in neutral.

EJU36087

Boarding the watercraft

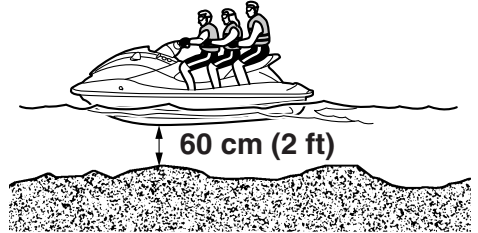
EWJ01112

WARNING

Be sure the operator and any passengers have practiced boarding from the water while still close to shore before riding. A person who has made many unsuccessful attempts to get back on the watercraft may become fatigued and suffer from exposure, increasing the risk of injury and drowning.

Board the watercraft in water free from weeds and debris and at least 60 cm (2 ft) deep from the bottom of the watercraft.

NOTICE: Never run the engine in water that is less than 60 cm (2 ft) deep from the bottom of the watercraft, otherwise pebbles or sand could be sucked into the jet intake, causing impeller damage and engine overheating. [ECJ00473]



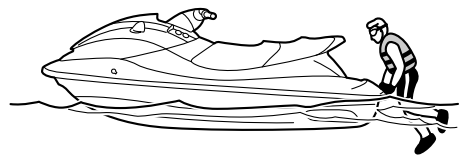
TIP:

VXR: This watercraft is equipped with a reboarding step, which can be lowered and used to assist in reboarding. (See page 44 for information on operating the reboarding step.)

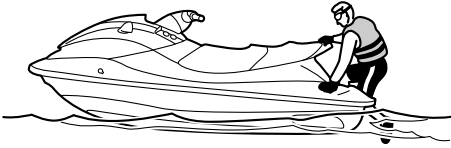
EJU36354

Boarding alone

- (1) From the rear of the watercraft, place both hands on the boarding platform, pull yourself up, and then grasp the handgrip with one hand.



- (2) Pull yourself up to a kneeling position on the boarding platform, and then move to the seat and sit astride.



- (3) Attach the engine shut-off cord (lanyard) to your left wrist, and then attach the clip to the engine shut-off switch.
- (4) Grip the handlebars with both hands and place both feet on the floor of the footwell.



- (5) Look in all directions, start the engine, and then start off slowly.

EJU43260

Boarding with passenger(s)

EWJ01800

WARNING

- Severe internal injuries can occur if water is forced into body cavities as a result of being near the jet thrust nozzle. Do not start the engine until the passengers are seated with their feet on the floor of the footwell and are securely

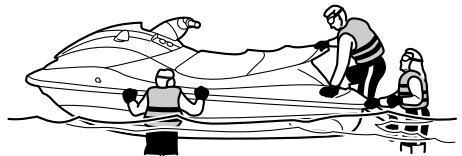
holding on to the person in front of them or to the handgrip provided.

- Before boarding the watercraft, make sure that the engine is stopped. If the engine is running, the reverse gate may move down and a person boarding could be pinched.

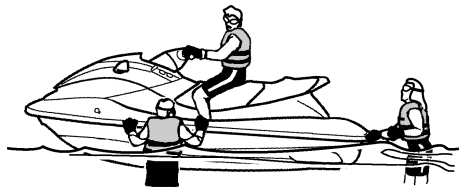
The heavier the total weight of the operator and passenger(s), the more difficult it will be to balance the watercraft. Do not operate the watercraft when the total weight exceeds 240 kg (530 lb) including any cargo.

To board with passenger(s):

- (1) Board as noted in the previous section "Boarding alone".

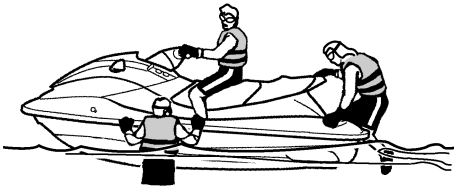


- (2) Grip the handlebars with both hands and place both feet on the floor of the footwell.
- (3) Have the first passenger move to the rear of the watercraft.



Operation

- (4) Have the first passenger board using the same procedure as the operator, place their feet on the floor of the footwell, and securely hold on to the operator.

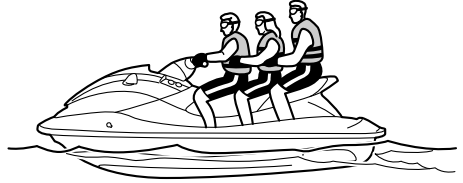


- (5) Have the second passenger follow the same procedure. When the second passenger is boarding, try to balance the watercraft together with the first passenger.



- (6) Make sure that the passenger(s) have their feet on the floor of the footwell and

are securely holding on to the person in front of them or to the handgrip provided.



- (7) Attach the engine shut-off cord (lanyard) to your left wrist, and then attach the clip to the engine shut-off switch.
(8) Look in all directions, start the engine, and then start off slowly.

EJU33083

Starting off

EWJ00712

WARNING

To avoid collisions:

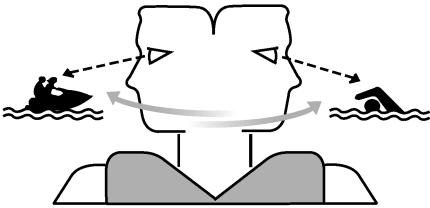
- Scan constantly for people, objects, and other watercraft. Be alert for conditions that limit your visibility or block your vision of others.
- Operate defensively at safe speeds and keep a safe distance away from people, objects, and other watercraft.
- Do not follow directly behind watercraft or 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, watercraft and other boats do not have brakes. Do not release the throttle lever when trying to steer away

from objects—you need throttle to steer.

ECJ01341

NOTICE

Never run the engine in water that is less than 60 cm (2 ft) deep from the bottom of the watercraft, otherwise pebbles or sand could be sucked into the jet intake, causing impeller damage and engine overheating.



EJU43271

Starting off from a trailer

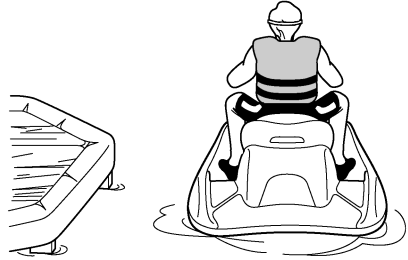
- (1) Launch the watercraft.
- (2) Attach the engine shut-off cord (lanyard) to your left wrist, and then attach the clip to the engine shut-off switch.
- (3) Look in all directions, and then start the engine.
- (4) Squeeze the RiDE lever and move the watercraft back slowly. (See page 31 for RiDE lever operation procedures.)

EJU33114

Boarding and starting off from a dock

- (1) Board the watercraft from the side.
- (2) Attach the engine shut-off cord (lanyard) to your left wrist, and then attach the clip to the engine shut-off switch.
- (3) Push the watercraft away from the dock, grip the handlebars with both hands, and

place both feet on the floor of the footwell.



- (4) Look in all directions, start the engine, and then start off slowly.

EJU33236

Capsized watercraft

EWJ00672

WARNING

Improper uprighting can cause injury.

- Be sure to shut the engine off by pulling on the engine shut-off cord (lanyard) to remove the clip from the engine shut-off switch.
- Do not put your hands in the intake grate.

If the watercraft capsizes, turn it over immediately.

To upright the watercraft:

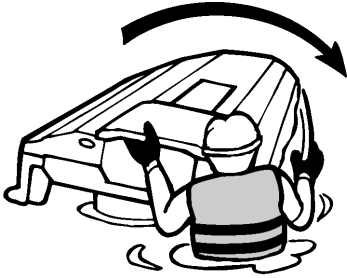
- (1) Remove the clip from the engine shut-off switch.
- (2) Swim to the rear of the watercraft. Turn the watercraft over clockwise by pulling on the ride plate with your left hand while pushing down on the gunwale with your right hand or foot.

If the port (left) side of the capsized watercraft is tilting up, push down on the gunwale so that the port (left) side is down before turning the watercraft clockwise. **NOTICE: Do not turn the watercraft over counterclockwise,**

Operation

otherwise water can enter the engine, which can result in severe damage.

[ECJ00542]



- (3) Start the engine and operate the watercraft at planing speed to drain the bilge water from the engine compartment. (See page 54 for information on draining the bilge water. If the engine does not start, see “Towing the watercraft” on page 98 or “Submerged watercraft” on page 98.) **NOTICE: Do not run the engine at full throttle for at least 1 minute after the engine has been restarted. Bilge water in the engine compartment can splash into the engine, which can result in severe damage.**

[ECJ00554]

EJU43281

Beaching and docking the watercraft

To beach the watercraft:

- (1) Make sure that there are no boats, swimmers, or obstacles near the beach.

- (2) Release the throttle lever to reduce speed about 110 m (360 ft) before you reach the intended beaching area.
- (3) Slowly approach the beach using the throttle lever and RiDE lever to control the watercraft speed.
- (4) After reaching land, stop the engine, and then get off the watercraft and pull it up on the beach.

To dock the watercraft:

- (1) Make sure that there are no boats, swimmers, or obstacles near the dock.
- (2) Release the throttle lever to reduce speed about 110 m (360 ft) away from the dock.
- (3) Slowly approach the dock using the throttle lever and RiDE lever to control the watercraft speed.
- (4) After coming alongside the dock, stop the engine, and then get off the watercraft.

EJU37194

Operating in weeded areas

Always avoid using your watercraft in areas where weed growth is thick. If operating in weeded areas is unavoidable, alternately squeeze the throttle lever and relax your grip on the throttle lever to vary the engine speed. Weeds tend to become clogged more when operating at a steady speed and at trolling speed. If weeds may have clogged the intake area, clean the jet intake. (See page 94 for information on the jet intake.)

EJU40242

After removing the watercraft from the water

ECJ01311

NOTICE

Do not run the engine over 4000 r/min on land. Also, do not run the engine for more than 15 seconds without supplying water, otherwise the engine could overheat.

After operating and removing the watercraft from the water, promptly discharge the remaining water from the cooling water passages.

To discharge water from the cooling water passages:

- (1) Make sure that the area around the watercraft is clear, and then start the engine.
- (2) Discharge the remaining water out of the cooling water passages by alternately squeezing and releasing the throttle lever quickly for 10 to 15 seconds.
- (3) Stop the engine.

Care and storage

EJU37146

Post-operation care

EWJ00331

WARNING

Always place the watercraft upright in a horizontal position when storing it, otherwise fuel could leak out into the engine or engine compartment, which could create a fire hazard.

After using the watercraft, always take it out of the water, clean it, and store it. Leaving the watercraft in the water for extended periods will accelerate the rate of normal deterioration of the jet pump and hull. Marine organisms and corrosion are some of the conditions that can shorten the life of many watercraft components.

EJU43651

Flushing the cooling water passages

ECJ01311

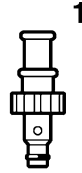
NOTICE

Do not run the engine over 4000 r/min on land. Also, do not run the engine for more than 15 seconds without supplying water, otherwise the engine could overheat.

Flush the cooling water passages to prevent them from clogging with salt, sand, or dirt.

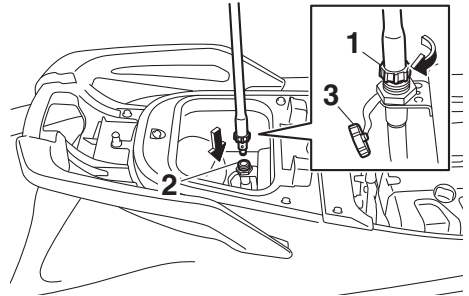
- (1) Place the watercraft in a horizontal position.
- (2) Remove the seats and watertight storage compartment. (See page 43 for seat removal and installation procedures and page 48 for information on the watertight storage compartment.)

- (3) Connect the garden hose adapter to a garden hose.



1 Garden hose adapter

- (4) Loosen the flushing hose connector cap and remove it. Insert the garden hose adapter into the flushing hose connector by pushing and twisting it until it is securely connected.



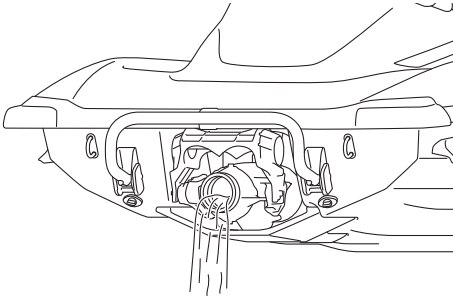
1 Garden hose adapter

2 Flushing hose connector

3 Flushing hose connector cap

- (5) Connect the garden hose to a water tap.
- (6) Make sure that the area around the watercraft is clear, and then start the engine. Immediately after the engine starts, fully turn the water supply on so that wa-

ter flows out continually from the jet thrust nozzle.



- (7) Run the engine at idling speed for about 3 minutes watching the engine condition. If the engine stops while flushing, turn the water supply off immediately and perform the procedure again from step 6. **NOTICE: Do not supply water to the cooling water passages when the engine is not running. The water could flow back through the muffler into the engine, causing severe engine damage.** [ECJ00123]
- (8) Turn the water supply off.
- (9) Discharge the remaining water out of the cooling water passages by alternately squeezing and releasing the throttle lever quickly for 10 to 15 seconds.
- (10) Stop the engine.
- (11) Remove the garden hose adapter, and then securely install the flushing hose connector cap by tightening it until it stops.
- (12) Securely install the watertight storage compartment and seats in their original positions.

EJU33736

Cleaning the watercraft

- (1) Remove the seats. (See page 43 for seat removal and installation procedures.)
- (2) Rinse the engine and engine compartment with a small amount of water.

NOTICE: Do not use high-pressure water when rinsing the engine or engine compartment as severe engine damage could result. [ECJ00572]

- (3) Drain the water from the engine compartment. (See page 54 for information on draining the bilge water.)
- (4) Wipe the engine and engine compartment with a dry cloth.
- (5) Wash down the hull, deck, and jet pump with fresh water.
- (6) Wipe the hull, deck, and jet pump with a dry cloth.
- (7) Wipe all vinyl and rubber components, such as the seats and engine compartment seals, with a vinyl protectant.
- (8) To minimize corrosion, spray metallic parts of the hull, deck, and engine with a rust inhibitor.
- (9) Allow the engine compartment to air dry completely before installing the seats.
- (10) Securely install the seats in their original positions.

EJU33687

Battery care

If the watercraft will not be used for more than a month, remove the battery from the watercraft, check it, and then store it in a cool, dry place.

EWJ00792

WARNING

Battery electrolyte is poisonous and dangerous, causing severe burns, etc. Electrolyte contains sulfuric acid. Avoid contact with skin, eyes, or clothing.

Antidotes

External: Flush with water.

Internal: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg, or vegetable oil. Call a physician immediately.

Care and storage

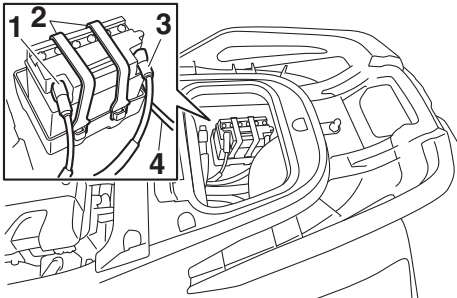
Eyes: Flush with water for 15 minutes and get prompt medical attention.

Batteries produce explosive gases. Keep sparks, flames, cigarettes, etc., well away. If using or charging the battery in an enclosed space, make sure that it is well ventilated. Always shield your eyes when working near batteries.

Keep out of the reach of children.

To remove the battery:

- (1) Disconnect the negative (-) battery lead.
- (2) Disconnect the positive (+) battery lead.
- (3) Disconnect the breather hose.
- (4) Unhook the battery bands, and then remove the battery from the watercraft.



- 1 Negative (-) battery terminal: Black lead
- 2 Battery band
- 3 Positive (+) battery terminal: Red lead
- 4 Breather hose

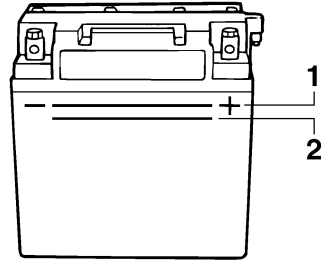
Checking the battery

- Make sure that the battery case is not damaged.
- Make sure that the battery terminals are not corroded or damaged.
- Make sure that the breather hose is not clogged or damaged.

Checking the electrolyte level

Make sure that the electrolyte level is between the maximum and minimum level marks.

If the electrolyte level is low, add distilled water to raise it to the specified level. **NOTICE:** Use only distilled water for replenishing the battery, otherwise battery life could be shortened. [ECJ00242]



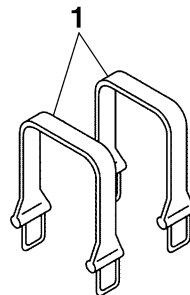
- 1 Maximum level mark
- 2 Minimum level mark

If distilled water was added, check the battery voltage.

It is recommended to have a Yamaha dealer check the battery voltage and charge the battery. If you charge the battery yourself, be sure to read and follow the instructions provided with the battery tester and charger you use. **NOTICE: Do not attempt to charge a battery hastily. Battery life could be shortened.** [ECJ00252]

Checking the battery bands

Make sure that the battery bands are not damaged.



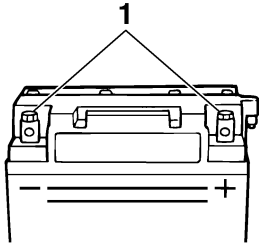
- 1 Battery band

Care and storage

To store the battery:

- (1) Clean the battery case using fresh water.
- (2) If the battery terminals are dirty or corroded, clean them using a wire brush.
- (5) Make sure that the battery is securely held in place.

damaged, obstructed, or not connected properly. [EWJ00452]



1 Battery terminal

- (3) Apply Yamaha Marine Grease or Yamaha Grease A to the battery terminals.

Recommended water-resistant grease:
Yamaha Marine Grease/Yamaha
Grease A

- (4) Store the battery in a cool, dry place.
NOTICE: Storing the battery in an uncharged condition can cause permanent battery damage. Check the battery periodically. [ECJ00103]

To install the battery:

- (1) Place the battery in the battery compartment and hook the battery bands onto the holders.
- (2) Connect the positive (+) battery lead (red) to the positive (+) battery terminal.
NOTICE: Reversal of the battery leads will damage the electrical parts. [ECJ00262]
- (3) Connect the negative (-) battery lead (black) to the negative (-) battery terminal.
- (4) Connect the breather hose to the battery. **WARNING! Fire or explosion could result if the breather hose is**

Care and storage

EJU33493

Long-term storage

EWJ00331

WARNING

Always place the watercraft upright in a horizontal position when storing it, otherwise fuel could leak out into the engine or engine compartment, which could create a fire hazard.

Storage for long periods of time, such as winter storage, requires preventive maintenance to ensure against deterioration. It is advisable to have the watercraft serviced by a Yamaha dealer prior to storage.

However, the following procedures can be performed easily by the owner.

EJU40763

Cleaning

- (1) Flush the cooling water passages. (See page 80 for information on flushing the cooling water passages.)

TIP:

If you will be storing the watercraft for a prolonged period, such as winter storage, top off the fuel tank with fresh gasoline and add fuel stabilizer and conditioner to the fuel tank according to the manufacturer's instruction before starting the engine.

- (2) Clean the watercraft. (See page 81 for information on cleaning the watercraft.)
Wax the hull with a non-abrasive wax.

EJU43301

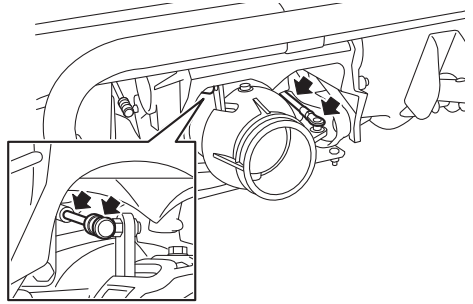
Lubrication

Use a suitable marine grease applicator and spray a rust inhibitor between the inner and outer cables to lubricate the cables and purge out any dirt and moisture.

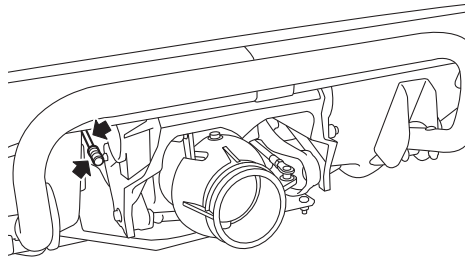
To keep moving parts sliding or rotating smoothly, lubricate them with water-resistant grease.

Recommended water-resistant grease:
Yamaha Marine Grease/Yamaha Grease A

- Steering cable (jet thrust nozzle end) and electric trim rod (jet thrust nozzle end)



- Shift rod (reverse gate end)



EJU40812

Rustproofing

Spray metallic parts of the hull, deck, and engine with a rust inhibitor.

Have a Yamaha dealer rustproof the internal engine components.

EJU33769

Maintenance

Periodic checks and lubrication will keep your watercraft in the safest and most efficient condition possible. Therefore, make sure to carry out the periodic maintenance. Safety is an obligation of the watercraft owner. Proper maintenance must be carried out to keep the exhaust emission and sound levels within the regulated limits. The most important points of watercraft inspection and lubrication are explained on the following pages.

See a Yamaha dealer for genuine Yamaha replacement parts and optional accessories designed for your watercraft.

Remember, failures that are the result of the installation of parts or accessories which are not qualitatively equivalent to genuine Yamaha parts are not covered by the limited warranty.

Maintenance, replacement, or repair of the emission control devices and system may be performed by any marine SI engine repair establishment or individual. Warranty repair, however, must be performed at an authorized Yamaha marine dealership.

EWJ00312

WARNING

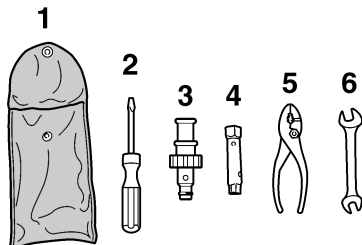
Be sure to turn off the engine when you perform maintenance unless otherwise specified. If you are not familiar with machine servicing, this work should be done by a Yamaha dealer or other qualified mechanic.

EJU33803

Tool kit

A tool kit is included with this watercraft. Place the tool kit in a waterproof bag and al-

ways carry it with you whenever you use the watercraft.



- 1 Tool bag
- 2 Screwdriver
- 3 Garden hose adapter
- 4 10/12 mm box wrench
- 5 Pliers
- 6 10/12 mm open-end wrench

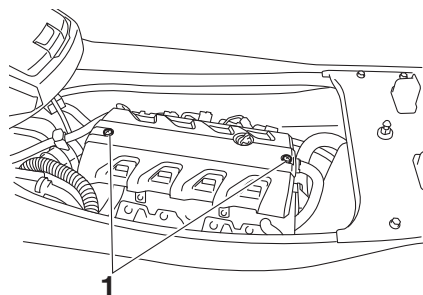
EJU42021

Removing and installing the engine cover

The engine cover is removable.

To remove the engine cover:

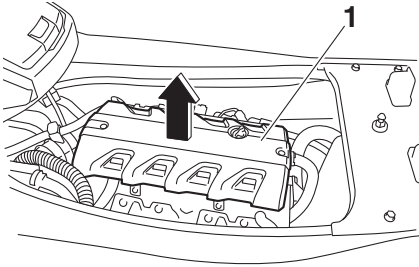
- (1) Remove the seats. (See page 43 for seat removal and installation procedures.)
- (2) Remove the engine cover screws.



- 1 Engine cover screw

Maintenance

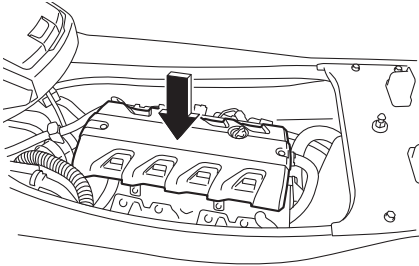
- (3) Lift up the engine cover to remove it.



1 Engine cover

To install the engine cover:

- (1) Place the engine cover in its original position, and then push it down.



- (2) Install the engine cover screws, and then tighten them to the specified torque.

Tightening torque:
Engine cover screw:
4.5 Nm (0.46 kgf-m, 3.3 ft-lb)

- (3) Securely install the seats in their original positions.

EJU43101

Periodic maintenance chart

The periodic maintenance chart gives general guidelines for periodic maintenance. Have a Yamaha dealer perform the checks in the following chart. However, maintenance may need to be performed more frequently depending on your operating conditions. If you have any questions, consult a Yamaha dealer.

This “√” mark indicates items to be checked and serviced by a Yamaha dealer.

Item	Operation	Initial	Thereafter every			Page
		10 hours	50 hours or 12 months *1	100 hours or 12 months *1	200 hours or 24 months *1	
Fuel line	Check fuel hoses and clamps			√		—
Fuel filler cap/Water separator	Check O-rings for cracks and deformation			√		—
Fuel tank	Check installation and straps			√		—
Water inlet strainer	Check for clogs and damage			√		—
Cooling water hoses	Check for damage and leakage, and check clamps			√		—
Engine oil	Replace	√	√			89
Oil filter	Replace			√		89
Intermediate housing	Lubricate			√		—
Spark plugs	Check	√		√		—
Battery	Check specific gravity of electrolyte, terminals, bands, and breather hose			√		—
Battery leads	Check terminals			√		—
Steering master	Check operation and for looseness	√		√		—
Steering cable	Check exterior and connections, and lubricate			√		—
Electric trim rod	Check exterior and connections, and lubricate			√		—
Shift rod and reverse gate	Check exterior and connections, and lubricate			√		—
Air filter element	Check for damage and dirt			√		—
Air intake hoses	Check for damage, and check clamps			√		—
Throttle body	Lubricate throttle valves			√		—

Maintenance

Item	Operation	Initial	Thereafter every			Page
		10 hours	50 hours or 12 months *1	100 hours or 12 months *1	200 hours or 24 months *1	
Exhaust system	Check for exhaust leakage, and check hoses and clamps			√		—
Breather hose	Check breather hose and clamps			√		—
Impeller	Check for bends, damage, and foreign material			√		—
Jet thrust nozzle	Check movement, and lubricate			√		—
Jet vacuum bilge	Check hoses for clogs and damage, check clamps, and clean bilge strainer			√		—
Stern drain plugs	Check O-rings			√		—
Anode	Check for corrosion, and clean				√ *2	—
Valve clearance	Check and adjust				√ *2	—
Rubber coupling	Check for cracks, indentations, looseness, and noise				√	—
Engine mount	Check for damage and peeling				√	—

*1: Whichever comes first.

*2: Check every 200 hours.

Perform the pre-operation checks and post-operation checks before performing periodic maintenance.

EJU36943

Engine oil and oil filter

EWJ00341



Engine oil is extremely hot immediately after the engine is turned off. Coming in contact with or getting any engine oil on your clothes could result in burns.

ECJ00992

NOTICE

Do not run the engine with too much or not enough oil in the engine, otherwise the engine could be damaged.

It is recommended to have a Yamaha dealer change the engine oil and the engine oil filter. However, if you choose to change the oil and filter on your own, consult a Yamaha dealer.

Specifications

EJU34543

Specifications

Watercraft capacity:

Maximum people on board:

3 person

Maximum load capacity:

240 kg (530 lb)

Dimensions:

Length:

VXS 3340 mm (131.5 in)

VXR 3350 mm (131.9 in)

Width:

1220 mm (48.0 in)

Height:

1190 mm (46.9 in)

Dry weight:

VXS 347 kg (765 lb)

VXR 348 kg (767 lb)

Performance:

Maximum output (according to ISO 8665/SAE J1228):

132.4 kW@7600 r/min

Maximum fuel consumption:

48.7 L/h (12.9 US gal/h, 10.7 Imp.gal/h)

Cruising range at full throttle:

1.44 hour

Trolling speed:

1300 ±100 r/min

Engine:

Engine type:

Liquid cooled 4-stroke, DOHC

Number of cylinders:

4

Engine displacement:

1812 cm³

Bore × stroke:

86.0 × 78.0 mm (3.39 × 3.07 in)

Compression ratio:

11.0 : 1

Valve clearance-intake (cold):

0.14–0.23 mm (0.0055–0.0091 in)

Valve clearance-exhaust (cold):

0.28–0.37 mm (0.0110–0.0146 in)

Lubrication system:

Wet sump

Cooling system:

Water

Starting system:

Electric

Ignition system:

T.C.I.

Spark plug:

LFR6A

Spark plug gap:

0.8–0.9 mm (0.031–0.035 in)

Battery capacity:

12 V, 19 Ah

Charging system:

Flywheel magneto

Drive unit:

Propulsion system:

Jet pump

Jet pump type:

Axial flow, single stage

Impeller rotation:

Counterclockwise

Jet thrust nozzle angle:

24.0+24.0 °

Jet thrust nozzle trim angle:

-6, -3, 0, 3, 6 °

Fuel and oil:

Recommended fuel:

Regular unleaded gasoline

Minimum octane rating (PON):

86

Minimum octane rating (RON):

90

Recommended engine oil type SAE:

SAE 10W-30, 10W-40, 20W-40, 20W-50

Recommended engine oil grade API:

API SE,SF,SG,SH,SJ,SL

Fuel tank total capacity:

70 L (18.5 US gal, 15.4 Imp.gal)

Engine oil quantity with oil filter replacement:

3.6 L (3.81 US qt, 3.17 Imp.qt)

Engine oil quantity without oil filter replacement:

3.5 L (3.70 US qt, 3.08 Imp.qt)

Engine oil total quantity:

5.3 L (5.60 US qt, 4.66 Imp.qt)

EJU34562

Troubleshooting

If you have any trouble with your watercraft, use the troubleshooting chart to check for the possible cause.

If you cannot find the cause, consult a Yamaha dealer.

EJU43512

Troubleshooting chart

Confirm the possible cause and remedy, and then refer to the applicable page.

TROUBLE	POSSIBLE CAUSE		REMEDY	PAGE
Engine does not start (Starter motor does not turn over)	Yamaha Security System	Lock mode selected	Select unlock mode	26
	Engine shut-off switch	Clip not in place	Install clip	27
	Fuse	Burned out	Replace fuse and check wiring	96
	Battery	Run down	Recharge	81
		Poor terminal connections	Tighten as required	81
		Terminal corroded	Clean or replace	81
	Starter motor	Faulty	Have serviced by Yamaha dealer	—
Engine does not start (Starter motor turns over)	Throttle lever	Squeezed	Release	27
		Faulty	Have serviced by Yamaha dealer	—
	RiDE lever	Squeezed	Release	27
		Faulty	Have serviced by Yamaha dealer	—
	Fuel	Fuel tank empty	Refill as soon as possible	50
		Stale or contaminated	Have serviced by Yamaha dealer	—
	Fuel tank	Water or dirt present	Have serviced by Yamaha dealer	—
	Spark plug	Fouled or defective	Have serviced by Yamaha dealer	—
	Spark plug cap	Not connected or loose	Have serviced by Yamaha dealer	—
		Connected to wrong cylinder	Have serviced by Yamaha dealer	—
	Fuel injection system	Fuel pump faulty	Have serviced by Yamaha dealer	—

Trouble recovery

TROUBLE	POSSIBLE CAUSE		REMEDY	PAGE
Engine runs irregularly or stalls	Fuel	Fuel tank empty	Refill as soon as possible	50
		Stale or contaminated	Have serviced by Yamaha dealer	—
	Fuel tank	Water or dirt present	Have serviced by Yamaha dealer	—
	Spark plug	Fouled or defective	Have serviced by Yamaha dealer	—
		Incorrect heat range	Have serviced by Yamaha dealer	—
		Gap incorrect	Have serviced by Yamaha dealer	—
	Spark plug cap	Not connected or loose	Have serviced by Yamaha dealer	—
		Cracked, torn, or damaged	Have serviced by Yamaha dealer	—
	Electrical wiring	Loose connection	Have serviced by Yamaha dealer	—
Fuel injection system	Faulty or clogged injectors	Have serviced by Yamaha dealer	—	
Warning light or indicator blinks or comes on	Fuel level warning	Fuel tank empty	Refill as soon as possible	50
	Oil pressure warning	Oil pressure dropped	Have serviced by Yamaha dealer	40
	Engine over-heat warning	Jet intake clogged	Clean	94
	Check engine warning	Faulty sensors	Have serviced by Yamaha dealer	41

Trouble recovery

TROUBLE	POSSIBLE CAUSE		REMEDY	PAGE
Watercraft slow or loses power	Watercraft operation mode	Low RPM Mode activated	Deactivate Low RPM Mode	35
	Cavitation	Jet intake clogged	Clean	94
		Impeller damaged or worn	Have serviced by Yamaha dealer	94
	Engine over-heat warning	Engine speed reduction control activated	Clean jet intake and cool engine	40
	Oil pressure warning	Engine speed reduction control activated	Add oil	40
	Spark plug	Fouled or defective	Have serviced by Yamaha dealer	—
		Incorrect heat range	Have serviced by Yamaha dealer	—
		Gap incorrect	Have serviced by Yamaha dealer	—
	Spark plug cap	Not connected or loose	Have serviced by Yamaha dealer	—
	Electrical wiring	Loose connection	Have serviced by Yamaha dealer	—
	Fuel	Stale or contaminated	Have serviced by Yamaha dealer	—
	Air filter	Clogged	Have serviced by Yamaha dealer	—
		Oil buildup	Have serviced by Yamaha dealer	—
	Throttle lever	Faulty	Have serviced by Yamaha dealer	—

Trouble recovery

EJU34625

Emergency procedures

EJU34635

Cleaning the jet intake and impeller

EWJ00783

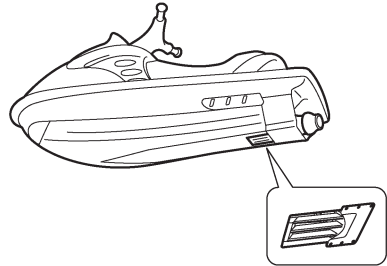
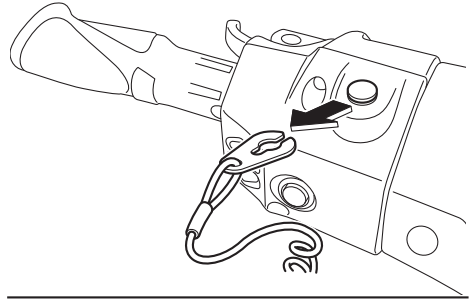
WARNING

Before attempting to remove weeds or debris from the jet intake or impeller area, shut the engine off and remove the clip from the engine shut-off switch. Severe injury or death could result from coming in contact with the rotating parts of the jet pump.

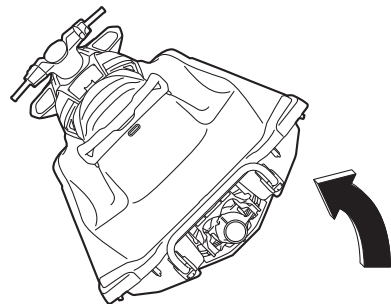
If weeds or debris gets caught in the jet intake or impeller, cavitation can occur, causing jet thrust to decrease even though engine speed rises. If this condition is allowed to continue, the engine will overheat and may seize. **NOTICE: If weeds or debris gets caught in the jet intake, do not operate the watercraft above trolling speed until they have been removed.** [ECJ00654]

If there is any sign that the jet intake or impeller is clogged with weeds or debris, return to shore and check the intake and impeller. Al-

ways stop the engine before beaching the watercraft.



- (1) Place a suitable clean cloth or carpeting underneath the watercraft to protect it from abrasions and scratches. Turn the watercraft on its side as shown. **NOTICE: Always turn the watercraft over onto its port (left) side. When turning the watercraft on its side, support the bow so that the handlebars are not bent or damaged.** [ECJ00662]



- (2) Remove any weeds or debris from around the jet intake, drive shaft, impeller, jet pump housing, and jet thrust nozzle.

If debris is difficult to remove, consult a Yamaha dealer.

EJU43471

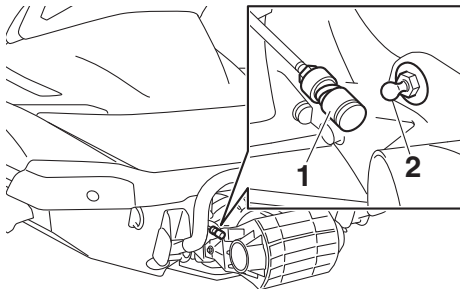
Raising the reverse gate

If the RiDE system malfunctions and the reverse gate remains in the lowered position, the watercraft will not be able to move forward.

After raising the reverse gate so that the watercraft can move forward, immediately return to shore and have a Yamaha dealer service the watercraft.

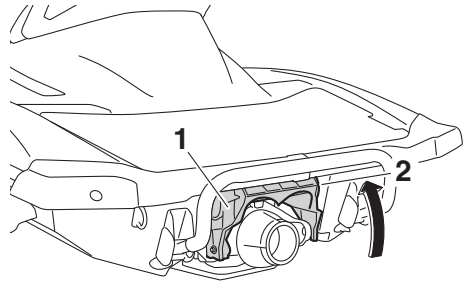
To raise the reverse gate:

- (1) Stop the engine and remove the clip from the engine shut-off switch.
- (2) Enter the water and move to the rear of the watercraft.
- (3) Slide the shift rod joint toward the bow, and then disconnect the shift rod joint from the ball joint.



- 1 Shift rod joint
2 Ball joint

- (4) Raise the reverse gate to the forward position.



- 1 Reverse gate
2 Forward position

TIP:

- While the shift rod is disconnected, the reverse gate will not move to the neutral position or reverse position even if the RiDE lever is squeezed.
- If the RiDE lever is squeezed while the shift rod is disconnected, the watercraft will move forward.

EJU34642

Jumping the battery

If the watercraft battery has run down, the engine can be started using a 12-volt booster battery and jumper cables.

EJU34664

Connecting the jumper cables

EWJ01251

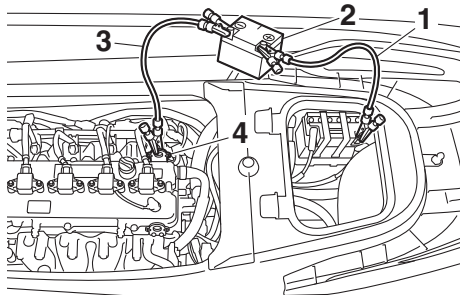
⚠ WARNING

To avoid battery explosion and serious damage to the electrical system:

- Do not reverse the polarity of the jumper cables when connecting to the batteries.
- Do not connect the negative (-) jumper cable to the negative (-) terminal of the watercraft battery.
- Do not touch the positive (+) jumper cable to the negative (-) jumper cable.

Trouble recovery

- (1) Connect the positive (+) jumper cable to the positive (+) battery terminals of both batteries.
- (2) Connect one end of the negative (-) jumper cable to the negative (-) battery terminal of the booster battery.
- (3) Connect the other end of the negative (-) jumper cable to an engine hanger.



- 1 Positive (+) jumper cable
- 2 Booster battery
- 3 Negative (-) jumper cable
- 4 Engine hanger

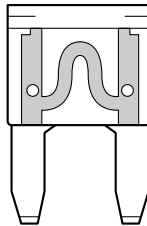
- (4) Start the engine, and then disconnect the jumper cables by reversing the steps above. (See page 27 for information on starting the engine.)

EJU44050

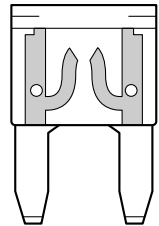
Replacing the fuses

If a fuse is blown, replace it with the proper fuse.

1

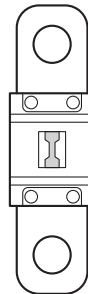


2

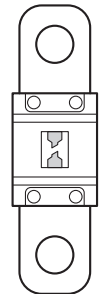


- 1 Good fuse
- 2 Blown fuse

1



2



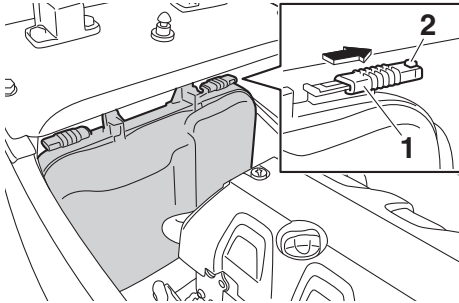
- 1 Good fuse
- 2 Blown fuse

To replace a fuse:

- (1) Remove the seats and removable watertight storage compartment. (See page 43 for seat removal and installation procedures and page 48 for information on the removable watertight storage compartment.)

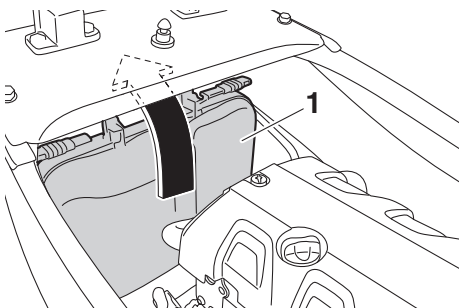
Trouble recovery

- (2) While pushing the projection on each lock, slide the locks outward.



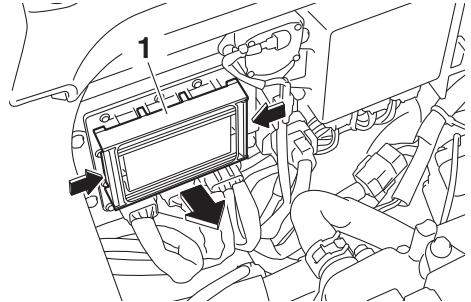
- 1 Lock
2 Projection

- (3) Remove the electrical box cover from the electrical box and move it under the deck beam toward the stern. **NOTICE: Do not attempt to forcefully remove the electrical box cover from the watercraft. Otherwise, the electrical box cover, electrical system, and engine could be damaged.** [ECJ02610]



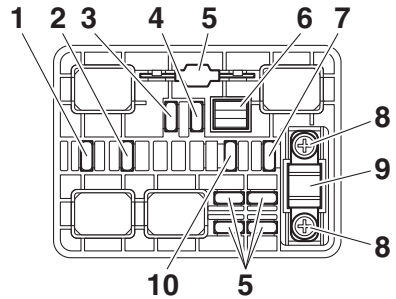
- 1 Electrical box cover

- (4) While pushing both sides of the fuse box cover inward, pull the cover toward the bow and remove it.



- 1 Fuse box cover

- (5) When replacing the SCU fuse, remove the screws, and then remove the fuse. Install the spare fuse, and then tighten the screws.



- 1 Electronic throttle valve fuse
2 Fuel pump fuse
3 Main relay drive fuse
4 Main fuse
5 Spare fuse
6 Fuse puller
7 Battery fuse
8 Screw
9 SCU fuse (BCU fuse)
10 Security system fuse

- (6) When replacing a fuse other than the SCU fuse, remove the fuse using the fuse puller. Install a spare fuse of the proper amperage. **WARNING! Do not**

Trouble recovery

use fuses of a different amperage than recommended. Substitution with a fuse that has an improper rating can cause extensive electrical system damage and possible fire. [EWJ00803]

Fuse amperage:

Electronic throttle valve fuse:

10 A

Fuel pump fuse:

10 A

Main relay drive fuse:

10 A

Main fuse:

20 A

Battery fuse:

30 A

SCU fuse:

50 A

Security system fuse:

3 A

- (7) Securely install the fuse box cover in its original position.
- (8) Securely install the electrical box cover in its original position.
- (9) Slide the locks to their original positions to securely lock the electrical box cover in place.
- (10) Securely install the removable watertight storage compartment and seats in their original positions.

If the fuse immediately blows again, the electrical system may be defective. If this occurs, have a Yamaha dealer service the watercraft.

EJU34716

Towing the watercraft

EWJ00812



WARNING

- The operator of the towing boat must keep speed to a minimum and avoid traffic or obstacles which could be a hazard to the operator on the watercraft.

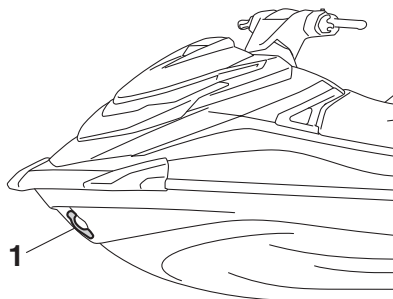
- The towline should be long enough so that the watercraft will not collide with the towing boat when slowing down.

If the watercraft becomes inoperative in the water, it can be towed to shore.

To tow the watercraft:

Use a towline that is three times the combined length of the towing boat and the watercraft.

- (1) Securely attach the towline to the bow eye of the watercraft being towed.



1 Bow eye

- (2) Sit astride the seat and hold on to the handlebars in order to balance the watercraft. **NOTICE: The bow must be kept up out of the water during towing, otherwise water could flood the engine compartment or water could flow back into the engine, causing severe engine damage.** [ECJ01331]

Tow the watercraft at 8 km/h (5 mph) or less.

NOTICE: Tow the watercraft at 8 km/h (5 mph) or less, otherwise water could flood the engine compartment or water could flow back into the engine, causing severe engine damage. [ECJ01322]

EJU36156

Submerged watercraft

If the watercraft is submerged or flooded with water, drain the bilge water from the engine

compartment. Then, have a Yamaha dealer service the watercraft as soon as possible.

If the watercraft was submerged:

- (1) Remove the watercraft from the water and drain the water from the storage compartments. (See page 46 for information on draining the storage compartments.)
- (2) Drain the bilge water from the engine compartment. (See page 54 for information on draining the bilge water.)
- (3) Have the watercraft serviced by a Yamaha dealer as soon as possible.

NOTICE: Be sure to have a Yamaha dealer inspect the watercraft. Otherwise, serious engine damage could result. [ECJ00792]

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