



# DF40A/DF50A/DF60A/ DF40ASV/DF50AV/DF60AV

**OWNER'S MANUAL  
MANUEL DU PROPRIÉTAIRE  
MANUALE DI ISTRUZIONI  
BESITZER HANDBUCH  
MANUAL DEL PROPIETARIO  
INSTRUKTIONSBOK  
INSTRUKSJONSBOK  
OMISTAJAN KÄSIKIRJA  
INSTRUCTIEBOEKJE  
MANUAL DO PROPRIETÁRIO  
BETJENINGSVEJLEDNING**

Part No. 99011-88LA0-054

May, 2021 (TK)

Eng. Fre. Ita. Ger. Spa.

Swe. Nor. Fin. Dut. Por. Den.

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If you cannot find your local language in this owner's manual please contact your Suzuki Marine dealer.  
English

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Si vous ne trouvez pas la langue que vous cherchez dans ce manuel du propriétaire, contactez votre concessionnaire marine Suzuki local.  
French

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Se il presente manuale non include la vostra lingua, entrare in contatto con un rivenditore di prodotti marini Suzuki.  
Italian

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Wenn Sie Ihre Landessprache in dieser Bedienungsanleitung nicht finden können, setzen Sie sich bitte mit Ihrem Suzuki-Marine-Händler in Verbindung.  
German

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Si no puede encontrar su idioma local en este manual del propietario, póngase en contacto con su proveedor Suzuki Marine.  
Spanish

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Kontakta din återförsäljare av Suzukis marinprodukter, om du inte hittar ditt lokala språk i denna bruksanvisning.  
Swedish

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Hvis du ikke finner ditt språk i denne bruksanvisningen ber vi deg vennligst om å kontakte din Suzuki Marine forhandler.  
Norwegian

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Jos omaa kieltäsi ei löydy näistä käyttöohjeista, pyydämme ottamaan yhteyttä Suzuki Marine -jälleenmyyjään.  
Finnish

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Als uw taal in deze gebruikshandleiding niet te vinden is, neemt u dan alstublieft contact op met uw Suzuki Marine dealer.  
Dutch

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Se você não puder encontrar o seu idioma neste manual do proprietário, entre em contato com o seu revendedor marítimo Suzuki.  
Portuguese

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Kontakt venligst din Suzuki Marine forhandler, hvis du ikke kan finde dit sprog i denne vejledning.  
Danish

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Pokud v tomto návodu na použití, nenaleznete Váš mateřský jazyk, obraťte se prosím, na Vašeho obchodního zástupce Suzuki Marine.  
Czech

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W przypadku, gdy niniejsza instrukcja obsługi użytkownika nie zawiera tekstu w Państwa języku, uprzejmie prosimy skontaktować się z dealerem Suzuki Marine.  
Polish

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Kui te ei leia sellest kasutusjuhendist oma kohalikku keelt, pöörduge palun kohaliku Suzuki Marine edasimüüja poole.  
Estonian

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Ако в този наръчник на потребителя не откривате Вашият език, моля обърнете се към регионалният дилър на Suzuki Marine.  
Bulgarian

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Jeigu šioje naudotojo instrukcijoje negalite surasti informacijos reikiama kalba, prašome kreiptis į „Suzuki Marine“ bendrovės atstovą.  
Lithuanian

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V prípade, že sa v tejto príručke majiteľa nenachádza jazyková verzia Vašej krajiny, skontaktujte sa s Vaším distribútorom Suzuki Marine.  
Slovak

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Če v priložniku za lastnika ne najdete svojega lokalnega jezika, se prosimo obrnite na predstavnika podjetja Suzuki Marine.  
Slovene

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Dacă nu puteți găsi limba dumneavoastră în acest manual, vă rugăm să contactați distribuitorul Suzuki Marine.  
Rumanian

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Ja Jūs neatrodāt savu vietējo valodu šajā lietotāja rokasgrāmatā, lūdzu kontaktēties ar savu Suzuki Marine pārstāvi.  
Latvian

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Amennyiben e kézikönyvben az Ön országában beszélt nyelv szerinti útmutató nem elérhető, kérjük lépjen kapcsolatba a Suzuki Marine helyi kereskedelmi képviselőjével.  
Hungarian

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Εάν δεν μπορείτε να βρείτε την τοπική σας γλώσσα σε αυτό το εγχειρίδιο ιδιοκτήτη παρακαλούμε να έλθετε σε επαφή με την αντιπροσωπία της Suzuki Marine.  
Greek

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Ako ne možete pronaći Vaš jezik u ovom priručniku, molimo kontaktirajte Vašeg lokalnog predstavnika programa Suzuki Marine.  
Hrvatski

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# INDEX

ENGLISH

FRANÇAIS

ITALIANO

DEUTSCH

ESPAÑOL

SVENSKA

NORSK

SUOMI

NEDERLANDS

PORTUGUESE

DANISH

**DF40A**  
**DF40ASV**  
**DF50A**  
**DF50AV**  
**DF60A**  
**DF60AV**

**EN**

# **OWNER'S MANUAL**

# IMPORTANT

## ▲ WARNING/ ▲ CAUTION/ NOTICE/ NOTE

Please read this manual and follow its instructions carefully. To emphasize special information, the symbol ▲ and the words **WARNING**, **CAUTION**, **NOTICE** and **NOTE** have special meanings. Pay special attention to the messages highlighted by these signal words.

### ▲ WARNING

Indicates a potential hazard that could result in death or serious injury.

### ▲ CAUTION

Indicates a potential hazard that could result in minor or moderate injury.

### NOTICE

Indicates a potential hazard that could result in damage to the motor or boat.

#### NOTE:

*Indicates special information to make maintenance easier or instructions clearer.*



This symbol appears in various locations on your Suzuki product to refer you to important information in the owner's manual.

## IMPORTANT NOTICE TO OWNERS

### ▲ WARNING

Failure to take the proper precautions may increase the risk of death or severe injury to you and your passengers.

- Prior to first-time use of your outboard motor, familiarize yourself thoroughly with the contents of this owner's manual. Be aware of all outboard motor features and all safety and maintenance requirements.
- Inspect the boat and motor before each trip. See the **INSPECTION BEFORE BOATING** section for important items.

- Become thoroughly familiar with all operating and handling characteristics of your boat and motor. Practice at low and moderate speeds until you are competent at handling the boat and motor. Do not attempt to operate at maximum performance until you are completely familiar with all of these characteristics.
- Carry boating safety and emergency equipment. This important equipment includes; flotation aids for each person (plus one throwable buoyant cushion in any boat 16 feet or longer), fire extinguisher, sound signaling device, visual distress signals, anchor, bilge pump, bucket, compass, emergency starter rope, extra fuel and oil, first aid kit, flashlight, food and water, mirror, paddles, tool kit, and transistor radio. Be sure you are carrying the equipment appropriate for your trip before launching.
- Never start the engine or let it run indoors or where there is little or no ventilation. Exhaust gas contains carbon monoxide, a gas that is colorless and odorless and can cause death or severe injury.
- Instruct your passengers on how to operate the boat, how to deal with emergencies, and how to operate safety and emergency equipment.
- Do not hold onto the motor cover or any other parts of your outboard motor while getting on or off your boat.
- Ensure that everyone wears a PFD (Personal Flotation Device) on board.
- Never operate the boat while under the influence of alcohol or other drugs.
- Distribute all weight load evenly in the boat.
- Have all scheduled maintenance performed. Consult your authorized Suzuki marine dealer as required.
- Do not modify or remove any outboard motor standard equipment. To do so may make the motor unsafe to use.
- Learn and obey all applicable navigation rules.
- Pay attention to all weather forecasts. Do not set out if weather is unsettled.
- Use extreme caution when purchasing replacement parts or accessories. Suzuki strongly recommends that you use only genuine Suzuki replacement parts/accessories or their equivalent. Inappropriate or poor quality replacement parts or accessories can create unsafe operating conditions.

- Never remove the flywheel cover (except for when emergency starting).

**NOTE:**

*Mounting radio transceiver or navigational equipment antennae too close to the engine cowling can cause electrical noise interference. Suzuki recommends that antennae be mounted at least one meter (40 inches) away from the engine cowling.*

**This manual should be considered a permanent part of the outboard motor and should remain with the outboard motor when resold or otherwise transferred to a new owner or operator. Please read this manual carefully before operating your new Suzuki and review the manual from time to time. It contains important information on safety, operation, and maintenance.**

## FOREWORD

Thank you for choosing a Suzuki outboard motor. Please read this manual carefully and review it from time to time. It contains important information on safety, operation, and maintenance. A thorough understanding of the information presented in this manual will help you experience safe, enjoyable boating.

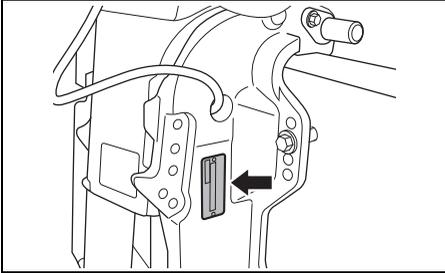
All information in this manual is based on the latest product information available at the time of publication. Due to improvements or other changes, there may be discrepancies between this manual and your outboard motor. Suzuki reserves the right to make changes at any time without notice.

# TABLE OF CONTENTS

<b>IDENTIFICATION NUMBER</b>	
<b>LOCATION</b> .....	5
<b>FUEL AND OIL</b> .....	5
<b>LOCATION OF SAFETY LABELS</b> .....	8
<b>LOCATION OF PARTS</b> .....	10
<b>MOTOR MOUNTING</b> .....	13
<b>BATTERY INSTALLATION</b> .....	13
<b>USE OF ELECTRICAL ACCESSORIES</b> .....	15
<b>PROPELLER SELECTION AND INSTALLATION</b> .....	15
<b>ADJUSTMENT</b> .....	16
<b>INDICATOR</b> .....	22
<b>CAUTION SYSTEM</b> .....	22
<b>DIAGNOSTIC SYSTEM</b> .....	26
<b>OIL CHANGE REMINDER SYSTEM</b> .....	26
<b>ENGINE STALLING CAUTION SYSTEM</b> .....	27
<b>OPERATION OF TILTING SYSTEMS</b> .....	28
<b>INSPECTION BEFORE BOATING ...</b>	32
<b>BREAK-IN</b> .....	33
<b>OPERATION</b> .....	34
<b>MOTOR REMOVAL AND TRANSPORTING</b> .....	43
<b>TRAILERING</b> .....	45
<b>INSPECTION AND MAINTENANCE</b> .....	46
<b>FLUSHING THE WATER PASSAGES</b> .....	55
<b>SUBMERGED MOTOR</b> .....	57
<b>STORAGE PROCEDURE</b> .....	58
<b>AFTER STORAGE</b> .....	59
<b>TROUBLESHOOTING</b> .....	59
<b>SPECIFICATIONS</b> .....	61
<b>INFORMATION REGARDING EC – DIRECTIVE</b> .....	62
<b>CHART OF TOTAL OPERATING HOURS INDICATION (Remote control model)</b> .....	62
<b>FLOWCHART OF OIL CHANGE REMINDER SYSTEM</b> .....	64

# IDENTIFICATION NUMBER LOCATION

The model and identification numbers of your outboard motor are stamped on a plate attached to the clamp bracket. It is important to know these numbers when you place a parts order or if your motor is stolen.



## FUEL AND OIL

### GASOLINE

Suzuki highly recommends that you use alcohol-free unleaded gasoline whenever possible, with a minimum octane rating of 91 (Research method). However, blends of unleaded gasoline and alcohol with equivalent octane content may be used, provided the guidelines that follow are met.

#### **NOTICE**

**Use of leaded gasoline can cause engine damage. Use of improper or poor quality fuel can affect performance and may damage your motor and fuel system.**

**Use only unleaded gasoline. Do not use fuel having lower than the recommended octane, or fuel that may be stale or contaminated by dirt/water etc.**

#### **NOTE:**

*Oxygenated fuels are fuels which contain oxygen-carrying additives such as alcohol.*

Suzuki recommends that you install a water-separating fuel filter assembly between your boat's fuel tank(s) and outboard motor(s). Fuel filtration systems of this type will help prevent water that may be present in your boat's fuel tank(s) from contaminating your motor's electronic fuel injection system. Water contamination can cause poor engine performance and can also cause damage to the electronic fuel injection system components.

Your Authorized Suzuki Marine Dealer can provide you advice about water-separating fuel filter systems and installation.

### Gasoline/Ethanol Blends

Blends of unleaded gasoline and ethanol (grain alcohol), also known as "GASOHOL", are commercially available in some areas. Blends of this type may be used in your outboard motor if they are no more than 10% ethanol. Make sure this gasoline-ethanol blend has octane ratings no lower than those recommended for gasoline.

Use the recommended gasoline which conforms to the following labels.



### Pump Labeling for Gasoline/Alcohol Blends

In some states, pumps that dispense gasoline/alcohol blends are required to be labeled for the type and percentage of alcohol content, and whether important additives are present. Such labels may provide enough information for you to determine if a particular blend of fuel meets the requirements listed above. In other states, pumps may not be clearly labeled as to the content or type of alcohol and additives. If you are not sure that the fuel you intend to use meets these requirements, check with the service station operator or the fuel suppliers.

**NOTE:**

*If you are not satisfied with the operation or fuel economy of your outboard motor when you are using gasoline/alcohol blends, you should switch back to unleaded gasoline containing no alcohol.*

*Be sure that any gasoline/alcohol blend you use has octane ratings of at least 91 octane (Research method).*

*If engine pinging is experienced, substitute another brand as there are differences between brands.*

*Unleaded gasoline will extend spark plug life.*

**▲ WARNING**

**Gasoline is extremely flammable and toxic. It can cause a fire and can be hazardous to people and pets.**

**Always take the following precautions when refueling:**

- **Never permit anyone other than an adult to refill the fuel tank.**
- **If you use a portable fuel tank, always stop the motor and remove the fuel tank from the boat to refill it.**
- **Do not fill the fuel tank all the way to the top or fuel may overflow when it expands due to heating by the sun.**
- **Be careful not to spill fuel. If you do, wipe it up immediately.**
- **Do not smoke, and keep away from open flames and sparks.**

**NOTICE**

**Gasoline kept in the fuel tank for long periods of time will produce varnish and gum, which can damage the engine.**

**Always use fresh gasoline.**

**NOTICE**

**Fuels containing alcohol can cause paint damage, which is not covered under the New Outboard Motor Limited Warranty.**

**Be careful not to spill fuel containing alcohol while refueling. If fuel is spilled, wipe it up immediately.**

**NOTE:**

*The fuel tank supplied with this motor is its dedicated fuel reservoir and should not be used as a fuel storage container.*

# ENGINE OIL

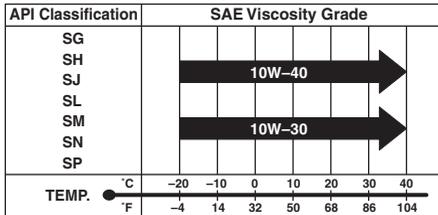
## NOTICE

Use of poor quality engine oil can adversely affect engine performance and life.

Suzuki recommends that you use Suzuki Marine 4-Cycle Engine Oil or its equivalent.

Oil quality is a major contributor to your engine's performance and life. Always select good quality engine oil.

Suzuki recommends the use of SAE 10W-40 or 10W-30 SUZUKI MARINE 4-CYCLE ENGINE OIL. If SUZUKI MARINE 4-CYCLE ENGINE OIL is not available, select a NMMA certified FC-W oil or good quality 4-cycle motor oil from the following chart according to the average temperatures in your area.



### NOTE:

In very cold weather (below 5°C (41°F)), use SAE (or NMMA FC-W) 5W-30 for easier starting and smooth operation.

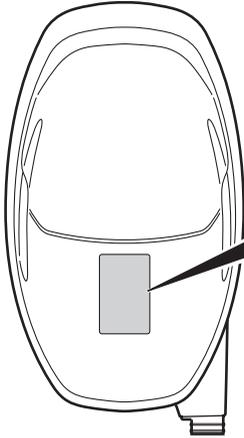
## GEAR OIL

Suzuki recommends the use of SUZUKI OUTBOARD MOTOR GEAR OIL. If it is not available, use SAE 90 hypoid gear oil which is rated GL-5 under the API classification system.

# LOCATION OF SAFETY LABELS

Read and follow all of the labels on your outboard motor or fuel tank. Make sure you understand all of the labels.

Keep the labels on your outboard motor or fuel tank. Do not remove them for any reason.



**▲ WARNING AVERTISSEMENT**

- Fuel can leak creating a fire hazard if you lay motor on its side. Drain fuel completely from vapor separator or carburetor before laying motor on its side.
- See owner's manual for details.

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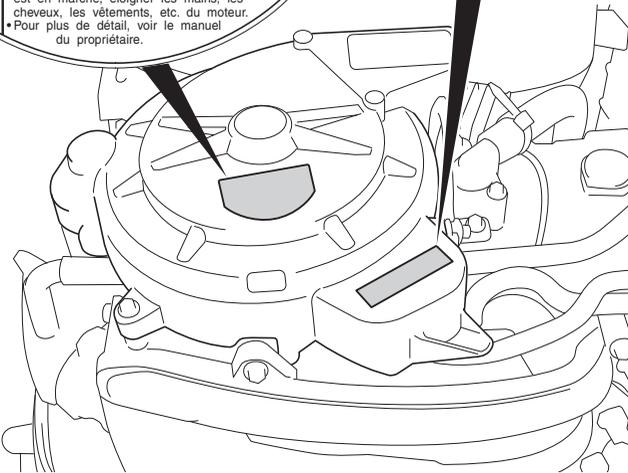
- Le carburant risque de fuir et de présenter un danger d'incendie si le moteur est placé sur le côté. Vidanger entièrement le carburant du séparateur de vapeurs ou du carburateur avant de procéder.
- Pour plus de détail, voir le manuel du propriétaire.

**▲ WARNING AVERTISSEMENT**

- To avoid injury, when engine is running, keep your hands, hair, clothing, etc., away from engine.
- See owner's manual for details.

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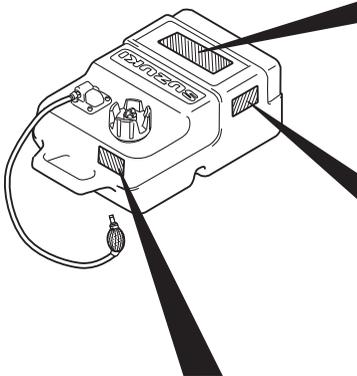
- Pour éviter toute blessure, quand le moteur est en marche, éloigner les mains, les cheveux, les vêtements, etc. du moteur.
- Pour plus de détail, voir le manuel du propriétaire.



**Label symbol meanings**  
 These symbols mean as follows;

- : General warning symbol (Caution or Warning)
- : Read owner's manual carefully
- : Remote control lever/gear shift lever operation-two direction; Forward/Neutral/Reverse

- : Engine start
- : Hazard caused by fire
- : Hazard caused by laying the motor on its side
- : Hazard caused by rotating parts





# GASOLINE



LISTED  
PORTABLE MARINE  
FUEL TANK  
91 B2

EXTREMELY FLAMMABLE

FOR USE AS A MOTOR FUEL ONLY - MAY CONTAIN LEAD ANTI-KNOCK COMPOUNDS

DANGER

HARMFUL OR FATAL IF SWALLOWED. KEEP OUT OF REACH OF CHILDREN. IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN IMMEDIATELY.

CAUTION

KEEP TOTALLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. SECURE ABOVE DECK IN WELL VENTILATED AREA. DO NOT USE FOR LONG TERM FUEL STORAGE. FUEL/OIL MIXTURE; FOLLOW MOTOR MANUFACTURERS' RECOMMENDATIONS.

GASOLINE  
EXTREMELY FLAMMABLE

REMOVE FROM BOAT FOR FILLING





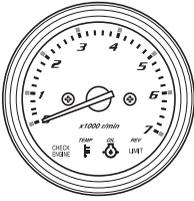
GASOLINA  
PELIGRO FLAMABLE

QUITARLO DEL BARRCO PARA PONER GAS

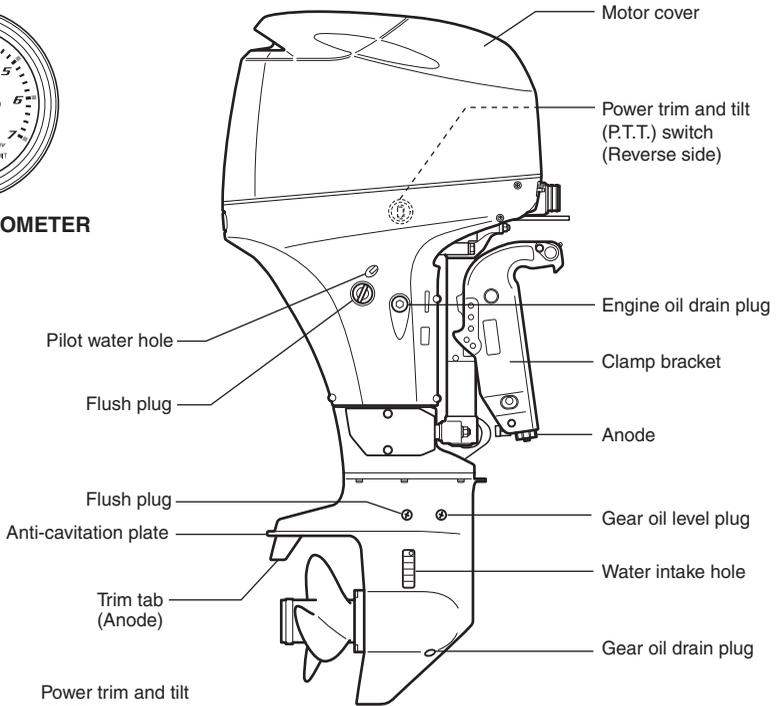
<b>⚠ WARNING</b>	<b>⚠ AVERTISSEMENT</b>
<ul style="list-style-type: none"> <li>Do not over fill. Fill to safe fill level as indicated on the tank.</li> <li>Store in well ventilated area.</li> <li>Tank is to be stored to reduce the likelihood of shifting and mechanical damage.</li> <li>Remove tank from boat for filling.</li> <li>Open vent on cap before starting engine.</li> <li>Replace cap gasket if it shows signs of wearing or if it is broken or missing.</li> <li>Do not over tighten threaded fittings.</li> </ul>	<ul style="list-style-type: none"> <li>Ne pas trop remplir le réservoir. Remplir le réservoir jusqu'au niveau sécuritaire de remplissage comme spécifié sur le réservoir d'essence.</li> <li>Rangez dans un endroit bien aéré.</li> <li>Le réservoir doit être rangé pour réduire les chances de bouger et dommage mécanique.</li> <li>Sortir le réservoir du bateau pour réfaire le plein d'essence.</li> <li>Ouvrir le bouton d'aération du bouchon de réservoir avant le démarrage du moteur.</li> <li>Remplacez le joint d'étanchéité du bouchon de réservoir s'il montre un signe d'usure, de bris ou s'il est manquant.</li> <li>Ne pas trop serrer les accouplements filetés.</li> </ul>

# LOCATION OF PARTS

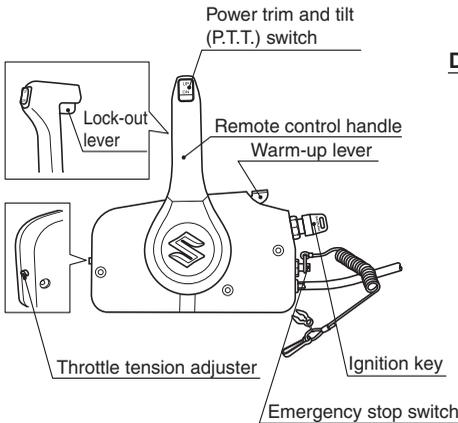
## REMOTE CONTROL MODEL



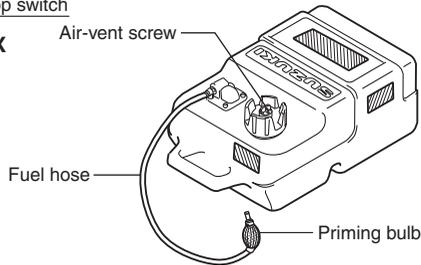
**MONITOR-TACHOMETER**



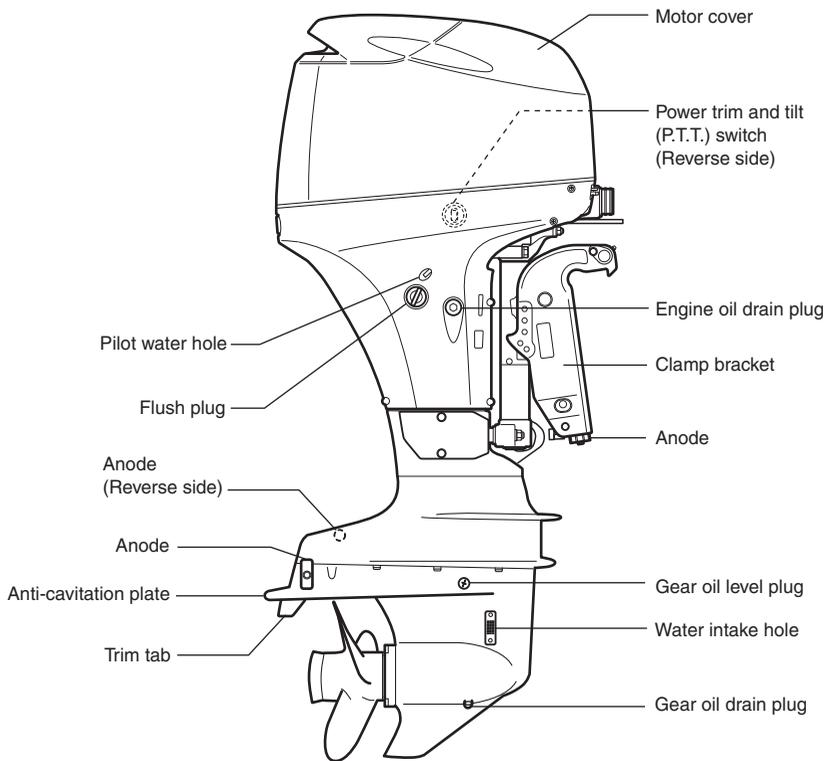
**DF40AT/50AT/60AT**



**REMOTE CONTROL BOX**

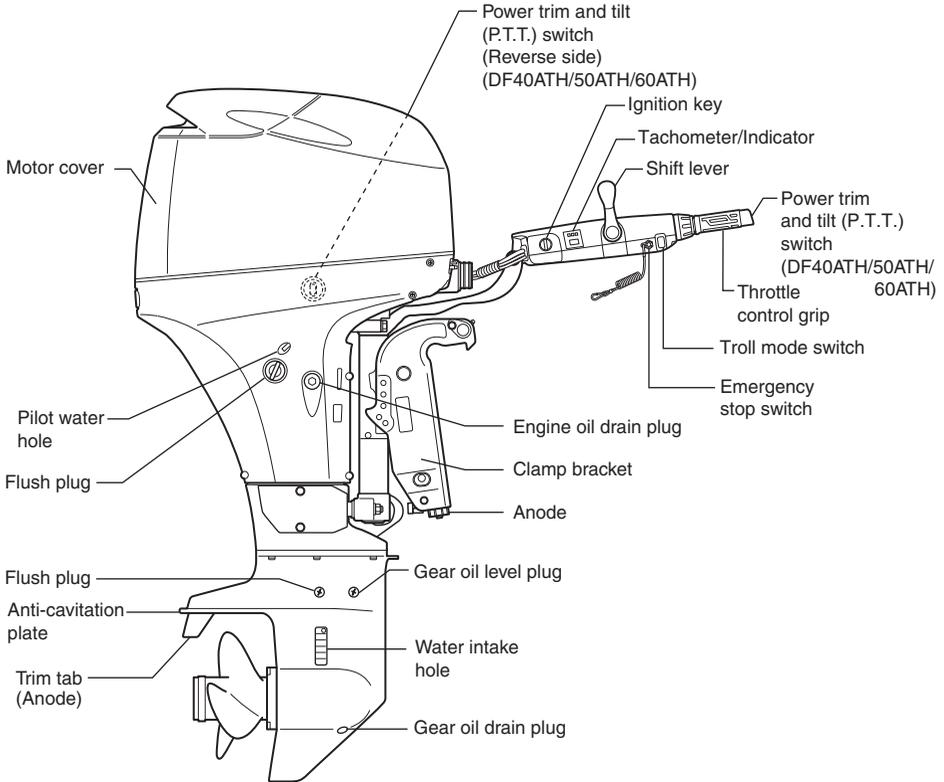


**FUEL TANK**

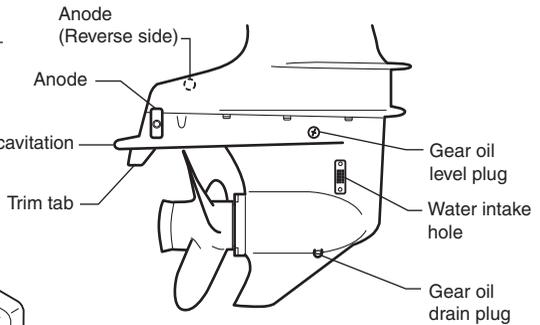


**DF40ASVT/50AVT/60AVT**

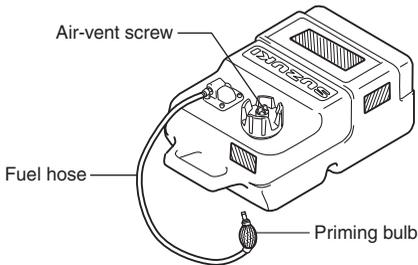
# TILLER HANDLE MODEL



**DF40ATH/QH/50ATH/60ATH**



**DF50AVTH**



**FUEL TANK**

# MOTOR MOUNTING

## WARNING

Overpowering your boat can be hazardous. Excessive horsepower will have an adverse effect on hull safety and may cause operating/handling difficulties. The boat may also sustain stress and hull damage.

Never install an outboard motor with horsepower exceeding the manufacturer's recommended maximum horsepower listed on the boat's "Certification Plate". Contact your authorized Suzuki marine dealer if you are unable to locate the hull "Certificate Plate".

Suzuki strongly recommends that you have your outboard motor, controls and gauges installed by an authorized Suzuki Marine Dealer. He has the tools, the facilities and the know-how.

## WARNING

Failure to have your outboard motor and associated controls and gauges properly installed can result in personal injury or damage.

Suzuki strongly recommends that you have your outboard motor, controls and gauges installed by your authorized Suzuki marine dealer. He has the tools, the facilities, and the know-how to do the job correctly.

# BATTERY INSTALLATION

## BATTERY REQUIREMENTS

Do not use deep cycle batteries and gel-cell batteries for starting engines. Use a 12 Volt starting-type lead acid battery that meets the specifications shown below.

**650 Marine Cranking Amps (MCA)/ABYC, or 512 Cold Cranking Amps (CCA)/SAE or 160 Reserve Capacity (RC) Minutes/SAE or 12 Volt, 80 AH**

### NOTE:

- *The specifications listed above are the minimum battery rating requirements for starting the engine.*
- *When connecting batteries in parallel, they must be of the same type, capacity, manufacturer, and of similar age. When replacement is necessary, they should be replaced as a set. Consult your Suzuki dealer for proper battery installation information.*
- *If your boat application requires additional battery loads, it is recommended that an auxiliary battery or batteries be installed. Consult your Suzuki dealer for proper battery installation information.*

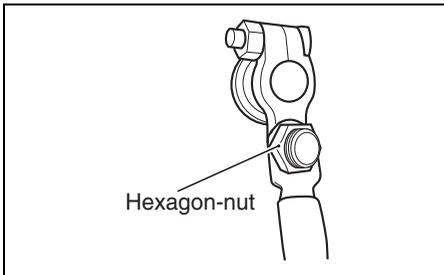
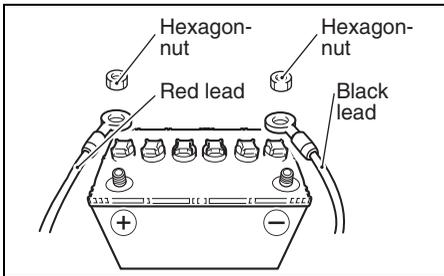
## BATTERY INSTALLATION

Secure the battery in a dry area of the boat, away from vibration.

### NOTE:

- It is recommended that the battery be installed in an enclosed battery case.
- When connecting batteries, hexagon-nuts must be used to secure battery leads to battery posts.

To hook up the battery, first connect the red lead from the motor to the positive battery terminal, then connect the black lead to the negative battery terminal.



To remove the battery, first disconnect the black lead from the negative terminal, then disconnect the red lead from the positive terminal.

Suzuki recommends that you install the terminal cap on the positive battery terminal to prevent an accidental short circuit of battery terminals.

If a terminal cap is required, contact your authorized Suzuki marine dealer.

### ⚠ WARNING

If you place the battery near the fuel tank, a spark from the battery may ignite the gasoline, causing a fire and/or an explosion.

Do not place the fuel tank in the same compartment/area as the battery.

### ⚠ WARNING

Batteries produce flammable hydrogen gas and may explode if they are near flames or sparks.

Never smoke or cause sparks when working near the battery. Keep the battery away from open flames. To avoid creating a spark when charging the battery, connect the battery charger cables to the proper terminals before turning the charger on.

### ⚠ WARNING

Battery acid is poisonous and corrosive. It can cause severe injury and can damage painted surfaces.

Avoid contact with eyes, skin, clothing, and painted surfaces. If battery acid comes in contact with any of these, flush immediately with large amounts of water. If acid contacts the eyes or skin, get immediate medical attention.

### NOTICE

The electrical system or its components may be damaged if proper battery precautions are not followed.

- Be sure to attach battery leads correctly.
- Do not disconnect battery leads from the battery while the engine is running.

## USE OF ELECTRICAL ACCESSORIES

The amount of power (DC12V) available for accessories, however, depends on the operating condition of the motor. For detailed information, please ask your authorized Suzuki Marine Dealer.

**NOTE:**

*Use of too much power for electrical accessories under certain operating conditions can cause the battery to discharge.*

## PROPELLER SELECTION AND INSTALLATION

### PROPELLER SELECTION

It is essential to use a propeller on your outboard motor that is properly matched to your boat's operating characteristics. The speed of the engine when you operate your boat at full throttle depends on the propeller you use.

Excessive engine speed can seriously damage the motor, while low engine speed at full throttle will adversely affect performance. Your operating load will also affect propeller selection. Smaller loads generally require larger-pitch propellers; larger loads generally require smaller-pitch propellers. Your authorized Suzuki Marine Dealer will assist you in selecting a suitable propeller for your boat.

#### **NOTICE**

**Installing a propeller with either too much or too little pitch will cause incorrect maximum engine speed, which may result in severe damage to the motor.**

**Ask your authorized Suzuki marine dealer to assist you in selecting a suitable propeller for your boat.**

You can determine if your propeller is appropriate for use with your boat by using a tachometer to measure engine speed when operating your boat at full throttle, under minimum load conditions. If you are using an appropriate propeller, the engine speed will be within the following range:

Full throttle operating range	DF40A	5000 – 6000 r/min. (min <sup>-1</sup> )
	DF40AS/40ASV DF50A/50AV DF60A/60AV	5300 – 6300 r/min. (min <sup>-1</sup> )

If the engine speed is not within this range, consult your authorized Suzuki Marine Dealer to determine which propeller size is best for you.

# PROPELLER INSTALLATION

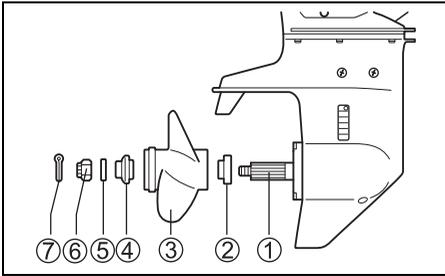
## ⚠ WARNING

Failure to take proper precautions when installing or removing the propeller can result in severe personal injury.

When installing or removing the propeller:

- Always shift into “Neutral” and remove the emergency stop switch lock plate so that the motor cannot be started accidentally.
- Wear gloves to protect hands, and “lock” the propeller by placing a block of wood between the blades and the anti-cavitation plate.

To install a propeller on your outboard motor, use the following procedure:



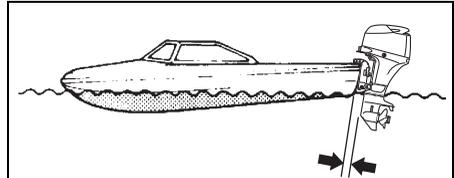
1. Coat the propeller shaft splines ① liberally with Suzuki water resistant grease to help prevent corrosion.
2. Place the stopper ② on the shaft.
3. Align the propeller ③ with the propeller shaft splines and slide the propeller onto the shaft.
4. Place the spacer ④ and washer ⑤ on the shaft.
5. Install the propeller nut ⑥ and tighten it with a torque wrench to 50 – 60 N·m (5.1 – 6.1 kgf·m/37 – 44 lbf·ft).
6. Insert the cotter pin ⑦ and bend it so that it can't come off.

To remove the propeller, reverse the above procedure.

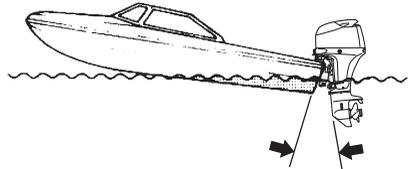
# ADJUSTMENT

## TRIM ANGLE ADJUSTMENT

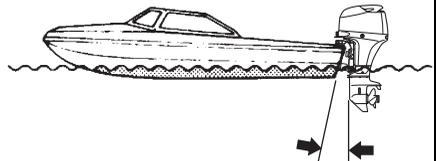
To help maintain steering stability and good performance, always maintain the proper trim angle as shown in the illustration. The appropriate trim angle varies depending on the combination of the boat, engine, and propeller, as well as operating conditions.



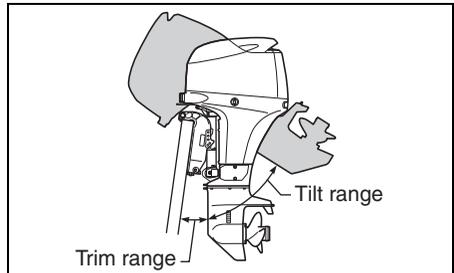
- Trim angle too small (Boat tends to “plow”)



- Trim angle too large (Boat tends to “porpoise”)



- Proper trim angle



## **▲ WARNING**

Trim angle greatly affects steering stability. If the trim angle is too small, the boat may “plow” or “bow steer”. If the trim angle is too large, the boat may “chine walk” from side to side or “porpoise” up and down. These conditions, which result in loss of steering control, can cause occupants to be thrown overboard.

Always maintain proper trim angle based on the combination of your boat, engine, and propeller, as well as operating conditions.

## **▲ WARNING**

When the motor is tilted beyond the maximum trim position, the swivel bracket will not have side support from the clamp bracket and the tilt system will be unable to cushion the engine if the lower unit strikes an obstruction. This could lead to occupant injury.

Do not operate the engine above 1500 r/min or operate the boat in a planing attitude with the motor tilted beyond the maximum trim position.

## **NOTICE**

If you operate the boat with the motor trimmed beyond the maximum trim position, the water intake holes may be above the water line, causing severe engine damage due to overheating.

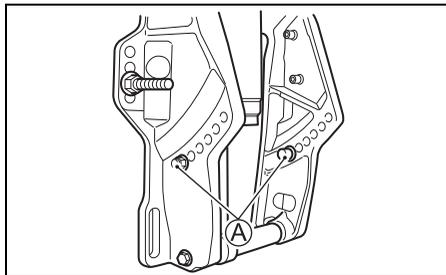
Never operate the boat with the motor trimmed beyond the maximum trim position.

## **DF40A (QH) MODEL**

Make a test run in the boat to determine if the trim down limit position needs to be adjusted.

To adjust the trim angle:

1. Hold the motor in the fully tilted up position. (Refer to TILT BRACKET section.)
2. Reposition the tilt pins **A** in the desired holes.



3. Lower the motor back down.

To lower the bow, move the pin towards the boat. To raise the bow, move the pin away from the boat.

## **▲ WARNING**

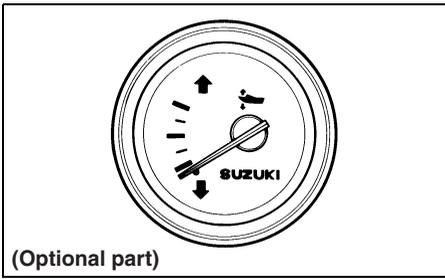
If you operate the motor with the tilt pin removed, you may not be able to control steering as expected.

Do not operate the motor with the tilt pin removed.

## **DF40A (T), DF40ASV (T), DF50A (T), DF50AV (T), DF60A (T), DF60AV (T) MODEL**

Make a test run in the boat to determine if the trim angle needs to be adjusted. Adjust the trim angle using the Power Trim and Tilt system.

While operating your boat with the motor adjusted to the proper trim angle, observe the position of the needle on the TRIM GAUGE provided as optional part. When making future trim angle adjustment, use the TRIM GAUGE as a guide.

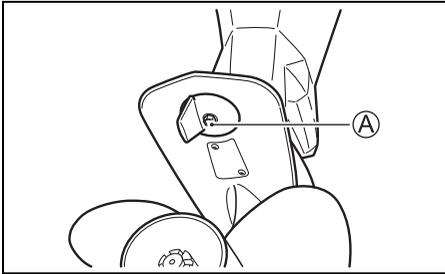


## TRIM TAB ADJUSTMENT

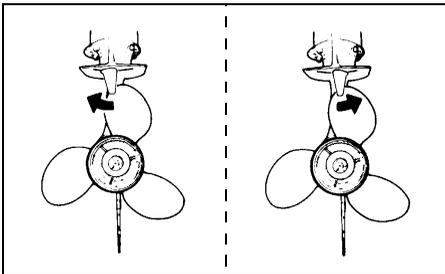
This adjustment is used to compensate for the possible tendency of your boat to veer slightly to port or starboard. This tendency could be due to such things as propeller torque, motor mounting position, etc.

To adjust the trim tab:

1. Loosen the bolt (A) that holds the trim tab in place.



2. If the boat tends to veer to port, move the rear end of the trim tab toward the port side. If the boat tends to veer to starboard, move the starboard side.



3. Tighten the bolt that holds the trim tab in place.

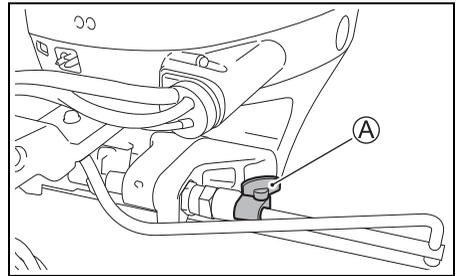
After adjusting the trim tab, check to see if the boat still tends to veer to one side. If necessary, readjust the trim tab.

## STEERING TENSION ADJUSTMENT

The steering on your outboard motor should be smooth and not tight. Adjust the steering tension so that there is only a slight resistance to steering movement.

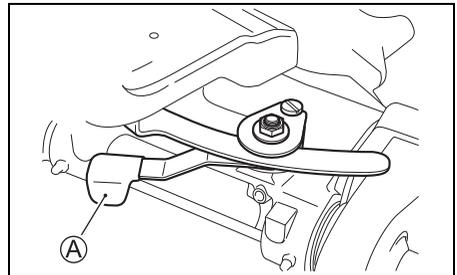
### DF50AV (TH), DF60A (TH) MODEL

To increase the steering tension, turn the steering tension bolt (A) clockwise. To decrease the steering tension, turn the steering tension bolt counterclockwise.



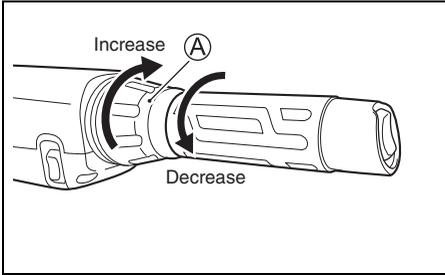
### DF40A (TH/QH), DF50A (TH) MODEL

For adjustment, use the steering tension lever (A). To increase the steering tension, move the lever (A) to the left. To decrease the steering tension, move the lever to the right.



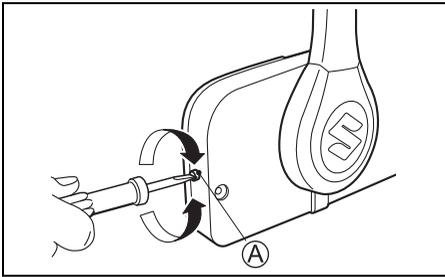
## THROTTLE TENSION ADJUSTMENT TILLER HANDLE MODEL

The tension of the throttle control grip can be adjusted according to your preference. To increase the tension, turn the throttle tension adjuster Ⓐ clockwise. To decrease the tension, turn the adjuster counterclockwise.



## REMOTE CONTROL MODEL

The tension of the remote control handle can be adjusted according to your preference. To increase the tension, turn the throttle tension adjuster Ⓐ clockwise. To decrease the tension, turn the adjuster counterclockwise.



## IDLE SPEED ADJUSTMENT

The idle speed has been factory adjusted between 750 – 850 r/min in neutral.

### NOTE:

If idle speed cannot be set within the specified range, contact your authorized Suzuki Marine Dealer.

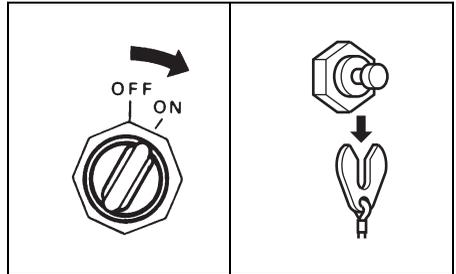
## SETTING OF TILT UPPER LIMIT POSITION DF40A (ST), DF40ASV (T), DF50AV (T/TH), DF60A (T/TH), DF60AV (T) MODEL

If the outboard motor contacts the motor well of the boat during full tilt up operation, the upper limit setting should be reset.

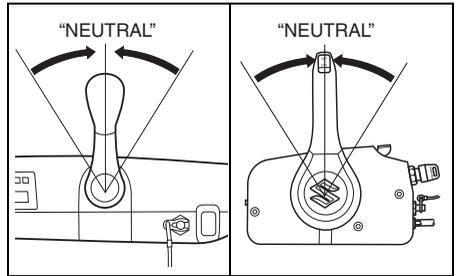
Perform this set-up after the current position setting has been canceled, as explained in the following procedure.

## CANCELING THE TILT UPPER POSITION LIMIT SETTING

1. Turn the ignition key to the "ON" position.
2. Pull out the emergency stop switch lock plate.



3. Shift the motor into "NEUTRAL".

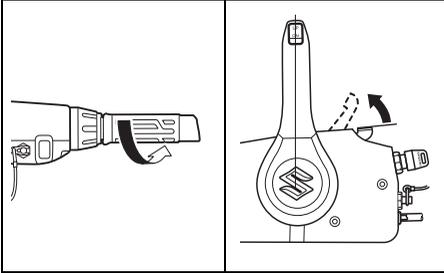


4. Remote control model:

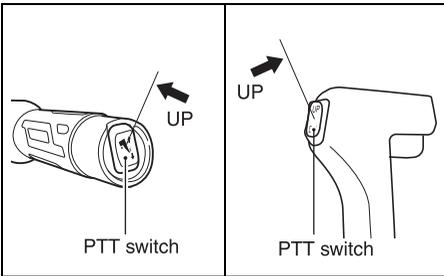
Using the throttle only function of the remote control box, move the warm-up lever upward until the caution buzzer sounds one time.

Tiller handle model:

Turn the throttle control grip until the buzzer sounds one time.



5. Press the “UP” side of the PTT switch for three seconds and the buzzer will sound twice briefly indicating the setting has been canceled.



6. Return the throttle to the fully closed position.

## SETTING THE TILT UPPER POSITION LIMIT

7. Press the “UP” side of the PTT switch so that the optimum full tilt up position for the boat can be obtained.

8. Remote control model:

Using the throttle only function of the remote control box, move the warm-up lever upward until the caution buzzer sounds one time.

Tiller handle model:

Turn the throttle control grip until the buzzer sounds one time.

9. Press the “UP” side of PTT switch three times within three seconds. The buzzer will sound one time briefly indicating the setting has been accepted.
10. Return the throttle to the fully closed position and install the lock plate on the emergency switch. Operate the full tilt up and full down operations several times by pressing the PTT switch and check that the setting of both the trim lower limit and tilt upper limit are properly set.

### ▲ WARNING

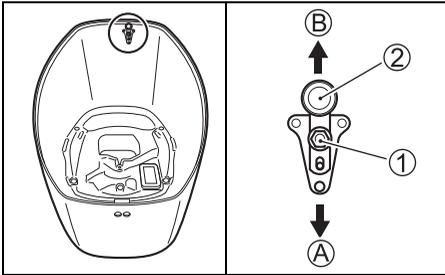
Setting of the tilt upper limit position will not prevent the outboard motor from tilting fully up and contacting the motor well if the motor's lower unit hits an object at high speed. Such tilting could damage your motor and boat and injure the boat occupants.

Keep all occupants away from the motor when operating at high speed.

## MOTOR COVER FASTENING ADJUSTMENT

If you feel the motor cover fastening is loose or too tight when locking the lever, adjust as follows:

1. Loosen the bolt ①.
2. Adjust the position of bracket ②. To increase the fastening, move the bracket to the direction ③. To decrease the fastening, move the bracket to the direction ④.
3. Tighten the bolt ①.



## TILLER HANDLE ANGLE ADJUSTMENT

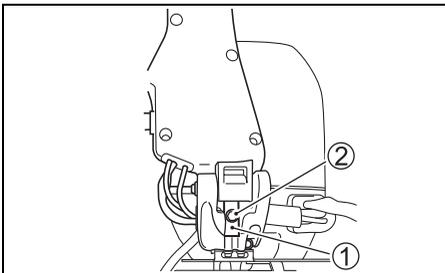
### TILLER HANDLE MODEL

To adjust the tiller handle angle from level, use the stopper and bolt which are included in the tiller handle package.

The tiller handle angle can be adjusted in three positions.

To adjust the tiller handle angle:

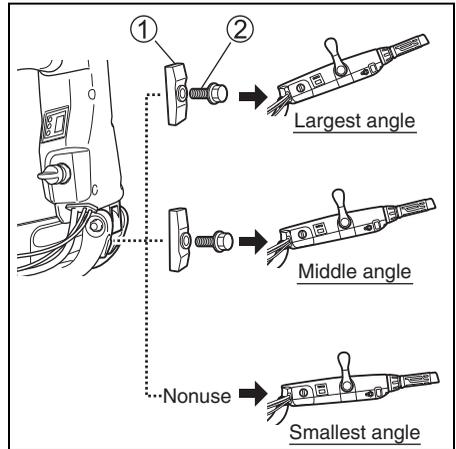
1. When the stopper is not used, the tiller handle will be the smallest angle. If you want to enlarge the angle, raise the tiller handle to install the stopper.
2. Select the direction of the stopper ① to install it on to the tiller handle bracket and tighten the bolt ② securely.



3. Confirm the tiller handle angle after returning down the tiller handle if it is convenient to the operator.

**NOTE:**

- When the stopper is installed as thick side upper, the tiller handle will be set to the largest angle from level.
- When the stopper is installed as thin side upper, the tiller handle will be set to the middle angle from level.
- When the stopper is not used, the tiller handle will be set to the smallest angle from level.

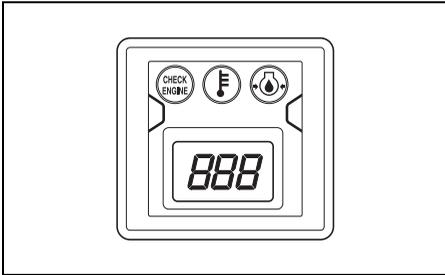


# INDICATOR

## TACHOMETER TILLER HANDLE MODEL

The tiller handle is equipped with the digital tachometer/caution indicator. The engine speed is indicated by the digits on the tachometer.

**NOTE:**  
The actual engine speed (r/min) is ten times of the meter display value.



# CAUTION SYSTEM

The caution systems are designed to alert you to certain situations which may cause damage to your outboard motor.

## NOTICE

Your outboard motor may become damaged if you rely on the Caution System to alert you to any malfunction that may occur or to give you an indication of the need for maintenance.

To avoid damage to your outboard motor, regularly inspect and maintain it.

## NOTICE

Continuing to operate your outboard motor with the Caution System activated can result in severe damage to your outboard motor.

If the Caution System activates while you are operating your outboard motor, stop the motor as soon as possible and correct the problem or consult your authorized Suzuki marine dealer for assistance.

## INDICATOR CHECK

### REMOTE CONTROL MODEL

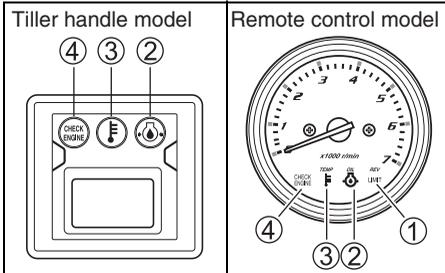
Each time the ignition key is turned to the "ON" position, four lamps – the REV LIMIT ①, the OIL ②, the TEMP ③ and the CHECK ENGINE ④ in the monitor-tachometer will light briefly and the buzzer will also sound for the first two seconds, regardless of the motor conditions.

For the next three seconds, the monitor-tachometer will indicate the total motor operating hours by means of the lamp flashing and needle indicating.

After this brief check period, the monitor-tachometer will return to their stand-by mode and will only respond to motor conditions requiring a caution alert.

## TILLER HANDLE MODEL

Each time the ignition key is turned to the "ON" position, three lamps – the OIL ②, the TEMP ③ and the CHECK ENGINE ④ in the tachometer/indicator will light briefly and the buzzer will also sound for the first two seconds, regardless of the motor conditions.



### NOTICE

If the Caution System is not working properly, you may not be alerted to a condition that can cause damage to your outboard motor.

If any of the lamps does not come on or the buzzer does not sound when the ignition key is turned to the "ON" position, the lamp or buzzer may be broken or a failure may exist in the system circuit. Consult your authorized Suzuki marine dealer.

#### NOTE:

For checking the total motor operating hours, refer to the *CHART OF TOTAL OPERATING HOURS INDICATION* on the last page.  
(Remote control model and tiller handle model)

## OVER-REVOLUTION CAUTION SYSTEM

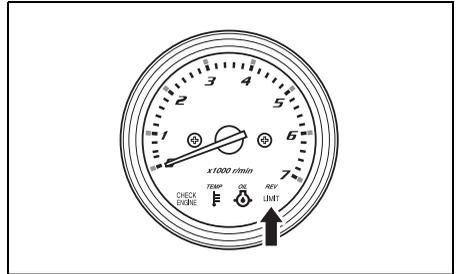
This system is activated when engine speed exceeds maximum recommended speed for more than 10 seconds.

### TILLER HANDLE MODEL

If this system activates, engine speed will automatically be reduced to approximately 3000 r/min.

## REMOTE CONTROL MODEL

If this system activates, engine speed will automatically be reduced to approximately 3000 r/min. with red REV LIMIT lamp lit.



This system must be reset by moving the throttle to the idle position for about one second to restore full engine operation.

### NOTICE

If the Over-Revolution Caution System activates at recommended maximum throttle and you are sure that the propeller pitch is sufficient and there are no factors like "over-trimming" or "ventilation", there may be a problem with the Over-Revolution Caution System.

Consult your authorized Suzuki marine dealer if the Over-Revolution Caution System activates for no apparent reason.

## OIL PRESSURE CAUTION SYSTEM

This system operates when the engine lubricating oil pressure drops below the correct level.

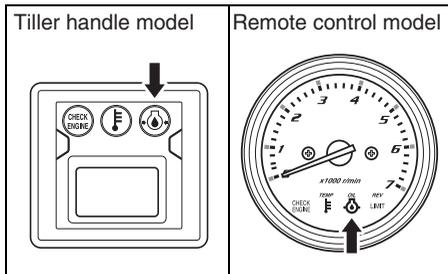
If this system activates, the red OIL lamp will light and a buzzer will begin a series of beep. In addition, when this system is activated at 1000 r/min. or higher, engine speed will automatically be reduced to approximately 1000 r/min.

If you continue to run, the engine will automatically stop 3 minutes after beginning of the above CAUTION system activation.

**NOTE:**

*In case that the engine is automatically stopped due to the CAUTION system, the engine can be started again.*

*However the CAUTION system will repeatedly activate until eliminating the cause.*



If this system activates, stop the engine immediately, if wind and water conditions make it safe to do so.

**⚠ WARNING**

**If you attempt to remove or reinstall the motor cover while the engine is running, you may be injured.**

**To check the oil level, stop the engine and then remove the motor cover.**

Check the oil level and add oil if necessary. If the oil level is correct, consult your authorized Suzuki Marine Dealer.

**NOTICE**

**Your engine may become severely damaged if you rely on the Oil Pressure Caution System to indicate the need to add engine oil.**

**Check the engine oil level periodically and add oil as necessary.**

**NOTICE**

**Operating the engine with the Oil Pressure Caution System activated can result in severe engine damage.**

**If the Oil Pressure Caution System activates, stop the engine as soon as possible and add engine oil, if necessary, or otherwise correct the problem.**

**OVERHEAT CAUTION SYSTEM**

This system is activated when the cylinder wall temperature is too high due to insufficient water cooling.

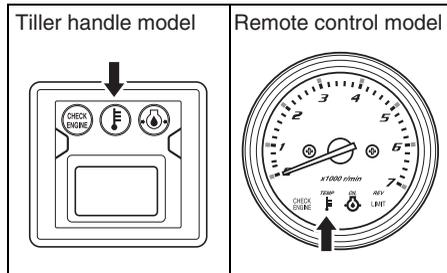
If this system activates, the red TEMP lamp will light and a buzzer will begin a series of beep. In addition, when this system is activated at 3000 r/min. or higher, engine speed will automatically be reduced to approximately 3000 r/min.

If you continue to run, the engine will automatically stop 3 minutes after beginning of the above CAUTION system activation.

**NOTE:**

*In case that the engine is automatically stopped due to the CAUTION system, the engine can be started again.*

*However the CAUTION system will repeatedly activate until eliminating the cause.*



If the overheat caution system activates when operating, reduce engine speed immediately and check if water is being discharged from the pilot water hole. If no water is seen, follow the procedures outlined below.

Water and wind conditions permitting, stop the engine, tilt it out of the water and remove any debris like seaweed, plastic bags or sand that may have blocked the water intakes. Lower the motor into the water, being sure that water intakes are immersed, and restart it.

Check (A) that water discharges from the pilot hole and (B) that the red TEMP lamp is no longer lit.

Be aware that the red TEMP lamp may light again if engine temperature rises abnormally. If either of the above situations arises, your authorized Suzuki Marine Dealer must be consulted as soon as possible.

### NOTICE

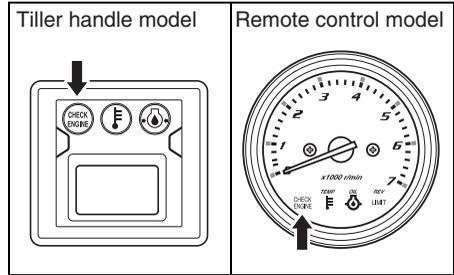
**Operating the engine with the overheat caution system activated can result in severe engine damage.**

**If the overheat caution system activates, stop the engine as soon as possible, wind and water conditions permitting, and inspect the engine according to the above instructions. Consult your authorized Suzuki marine dealer if you cannot correct the problem.**

## BATTERY VOLTAGE CAUTION SYSTEM

This system is activated when the battery voltage deficiency which could impair your motor's performance occurs.

If this system activates, the red CHECK ENGINE lamp will light and buzzer will begin a series of beep.



This system will be canceled automatically when the battery voltage restores to the proper voltage level. Refrain from using any electrical equipment such as P.T.T. system, hydraulic trim tabs, hydraulic jack plate, etc.

### ▲ WARNING

**Failure to take proper precautions when inspecting or servicing the battery can be hazardous.**

**Do not attempt to inspect or service the battery without first reading the warnings, cautions, and instructions in the "BATTERY INSTALLATION" section of this manual.**

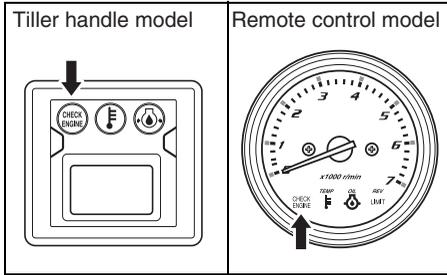
#### NOTE:

- A marginal battery may have enough power to start your engine, yet may still cause this caution system to activate whenever engine or boat accessory use places a high current demand on the battery.
- If this caution system activates continuously, even after you have stopped using engine or boat accessories, contact your authorized Suzuki Marine Dealer.

# DIAGNOSTIC SYSTEM

If abnormal conditions exist in any sensor signal being input to the control unit, the self-diagnostic system warns of the abnormal condition.

If this system activates, the red CHECK ENGINE lamp will flash and a buzzer will sound.



Also incorporated is a fail-safe provision that allows the operation at a restricted speed even under such a failure condition.

The failed system can be identified by the mode of the lamp flashing and buzzer sounding. The diagnostic code is designed to appear when the ignition key is turned on.

## NOTICE

If the diagnostic system activates while you are operating your outboard motor, there is an abnormal condition in one of the sensor signals of the control system.

Consult your authorized Suzuki marine dealer for repair of the control system.

### NOTE:

*Remote control model:*

*The buzzer sound with diagnostic system activating will be canceled by pushing the ignition key in.*

# OIL CHANGE REMINDER SYSTEM

This system informs the operator of the time for replacing engine oil on the basis of the maintenance schedule.

The system is designed to register the total operating hours of the outboard motor and function its operation when the preprogrammed hours have reached.

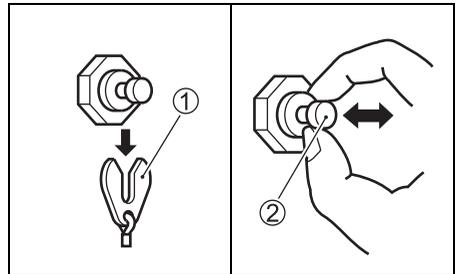
(Refer to the INSPECTION AND MAINTENANCE section and the last page.)

## SYSTEM ACTIVATION

When the total operating hours have reached the preprogrammed hours, the OIL lamp will flash. If the engine is not running, the buzzer will begin a series of double beeps additionally. This indication will repeat until you cancel the system activation.

## CANCELLATION

1. Turn the ignition key to the "ON" position.
2. Pull out the emergency stop switch plate ①.
3. Pull up the emergency stop switch knob ② three times in 10 seconds. A short beep will be heard if the cancellation is successfully finished.



4. Turn the ignition key to the "OFF" position.
5. Set the plate ① in the original position.

**NOTE:**

- *Canceling of the system activation is possible regardless of whether or not the engine oil has been replaced. Once the system has operated, however, Suzuki strongly recommends that the engine oil be replaced before canceling the system activation.*
- *Even if the engine oil has been replaced with the system not operating, it is still necessary to perform the cancellation.*

## **ENGINE STALLING CAUTION SYSTEM**

This system informs the operator when the motor stalls while it is operating.

When the engine stalls for any reason, the caution buzzer sounds three times.

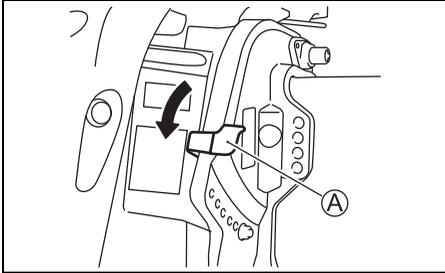
# OPERATION OF TILTING SYSTEMS

## TILT LOCK LEVER DF40A (QH) MODEL

The tilt lock lever (A) has two positions.

### “LOCK” Position (DOWN)

Use this position always when you operate the motor.



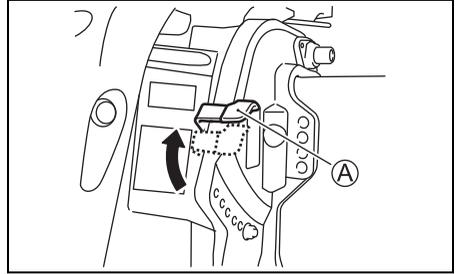
### NOTICE

If you strike an underwater object with the tilt lock lever in the “LOCK” position, your outboard motor or boat may be damaged.

When operating the motor in an area where you may encounter underwater objects, move the tilt lock lever to the “RELEASE” position and operate the motor only at very low speeds.

### “RELEASE” Position (UP)

Use this position only when you tilt the motor up.



### ▲ WARNING

When you operate the motor with the tilt lock lever in the “Release” position, the tilt lock will not work. As a result, forces such as from propeller thrust during operation in “REVERSE” gear, rapid deceleration, and striking an underwater object can cause the motor to lift out of the water, resulting in personal injury.

When using the “Release” position, proceed with caution and only at very low speed.

## TILT BRACKET DF40A (QH) MODEL

The Tilt Bracket is provided so you can support the motor in a tilted position for non-moving engine support.

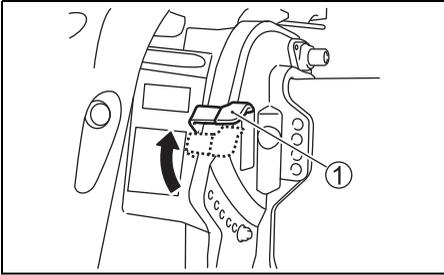
### ▲ WARNING

If you place your hands near the mounting bracket or under the motor when tilting it, your hands can be crushed if the motor slips from your grasp.

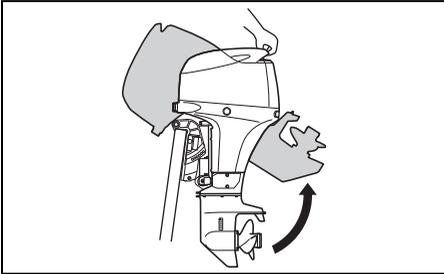
Never place your hands near the mounting bracket or under the motor when tilting it.

To hold the motor in the fully raised position:

1. Shift into "NEUTRAL".
2. Move the tilt lock lever ① to the "release" position.



3. Grab the handle on the back of the motor cover and tilt the motor all the way up.



### NOTICE

If you use the throttle grip handle to raise or lower the motor, the handle may break.

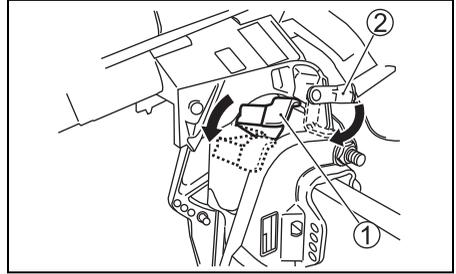
Never use the throttle grip handle to raise or lower the motor.

### NOTICE

If the tiller handle contacts any objects when tilting motor up, the outboard motor or boat could be damaged.

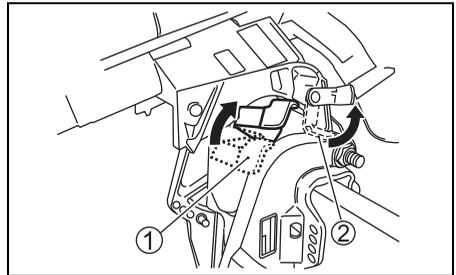
When tilting the motor up, position the motor so the tiller handle will not contact such as a tackle box, ice chest, or the motor well.

4. Move the tilt lock lever ① to the "lock" position, then pull down the tilt bracket ② as shown.



To lower the motor:

1. Pull up the tilt bracket ②, then move the tilt lock lever ① to the "release" position as shown.



2. Lower the motor by pushing the motor cover down.
3. Move the tilt lock lever ① to the "lock" position.

### ▲ WARNING

If you do not take proper precautions when tilting up the motor, fuel may leak out.

Disconnect the fuel line whenever you leave the motor tilted up for a long period of time.

### NOTICE

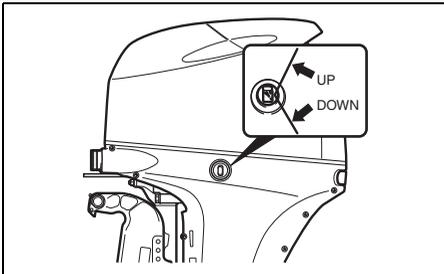
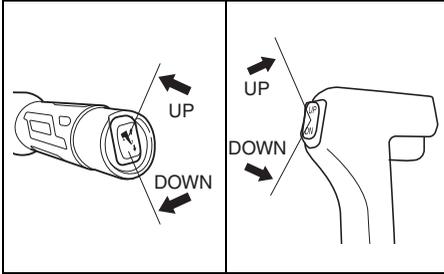
If you use the tilt bracket to hold the motor in the fully tilted position for trailering, the tilt bracket could release resulting in damage to the motor.

When trailering your boat, never use the tilt bracket to hold the motor in the fully tilted position.

## POWER TRIM AND TILT

**DF40A (T/TH), DF40ASV (T),  
DF50A (T/TH), DF50AV (T/TH),  
DF60A (T/TH), DF60AV (T) MODEL**

The "Power Trim and Tilt" is operated by pressing the switch. To tilt the motor up, press the upper part of the switch. To tilt the motor down, press the lower part of the switch.



### **⚠ WARNING**

The power trim and tilt (PTT) switch can be accidentally activated when the ignition key is off, resulting in injury.

Keep all persons away from the outboard motor to help prevent accidental activation of the PTT system.

### **NOTICE**

If the tiller handle contacts any objects when tilting motor up, the outboard motor or boat could be damaged.

When tilting the motor up, position the motor so the tiller handle will not contact such as a tackle box, ice chest, or the motor well.

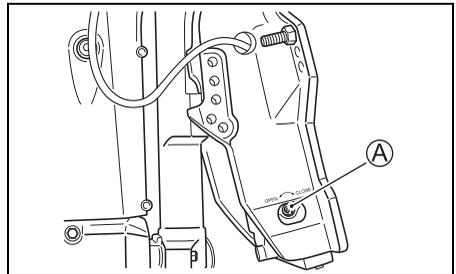
### **NOTE:**

Repeated operation of the power trim and tilt (PTT) causes the overheating of the PTT motor and the protection circuit may stop the operation of the motor. While the protection circuit activated, the PTT switch is inoperative. This inoperative condition of the system is cancelled once the overheating is resolved.

## MANUAL TILTING

**DF40A (T/TH), DF40ASV (T),  
DF50A (T/TH), DF50AV (T/TH),  
DF60A (T/TH), DF60AV (T) MODEL**

If you are unable to tilt the motor using the "Power Trim and Tilt" because of an electrical problem or some other problem, you can move the motor manually. To tilt the motor up or down, turn the manual release valve **A** four turns counterclockwise, move the motor to the desired position, then retighten the release screw.



### **⚠ CAUTION**

The motor is very heavy. When you tilt it manually, you could injure your back or slip and fall causing injury.

When you tilt the motor manually, ensure that your grip and footing are secure and that you are able to support the weight of the engine.

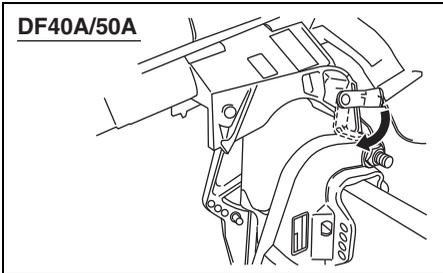
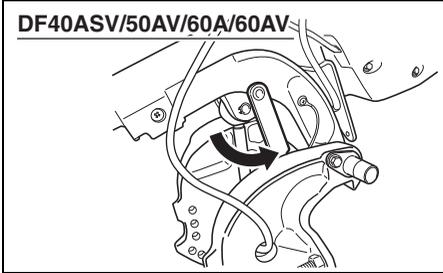
## TILT BRACKET

**DF40A (T/TH), DF40ASV (T),  
DF50A (T/TH), DF50AV (T/TH),  
DF60A (T/TH), DF60AV (T) MODEL**

The Tilt Bracket is provided so you can support the motor in a tilted position for non-moving engine support.

To set the Tilt Bracket:

1. Tilt the motor all the way up using the Power Trim and Tilt.
2. Pull down the Tilt Bracket as shown in the illustration.



3. Lower the motor using the Power Trim and Tilt, until the motor is supported by the Tilt Bracket.

### **▲ CAUTION**

The remote Power Trim and Tilt switch will work when the ignition switch is off. If someone activates the switch while you are moving the tilt bracket your hand could be injured.

Keep all persons away from the remote Power Trim and Tilt switch while you are moving the tilt bracket.

### **NOTICE**

Damage can occur if you use the tilt bracket other than when the boat is moored or is otherwise stationary.

The tilt bracket relieves pressure from the power trim and tilt and should only be used when the boat is stationary. Do not use the tilt bracket when trailering your boat and motor. Refer to the TRAILERING section of this manual.

# INSPECTION BEFORE BOATING

## ⚠ WARNING

Failure to inspect your boat and motor before beginning a trip can be hazardous.

Before boating, always perform the inspections described in this section.

It is important to make sure that your boat and motor are in good condition and that you are properly prepared for an emergency. Always perform the following checks before you begin boating:

- Make sure that you have enough fuel for the intended run.
- Check the level of engine oil in the sump.

## NOTICE

Running the engine with an insufficient amount of oil can cause serious engine damage.

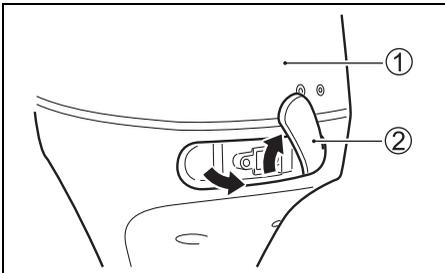
Always check the oil level before each trip and add oil if necessary.

To check the oil level:

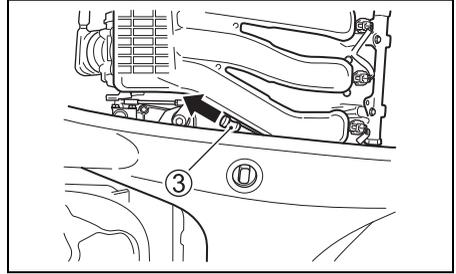
### NOTE:

To avoid an incorrect assessment of engine oil level, check the level only when the engine has cooled.

1. Place the motor in a vertical position, then remove the motor cover ① by unlocking the lever ②.



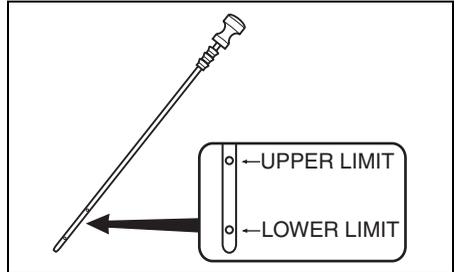
2. Pull out the oil dipstick ③ and wipe oil off with a clean cloth.



### NOTE:

If the engine oil is contaminated or discolored, replace with fresh engine oil (Refer to Inspection and maintenance/engine oil section).

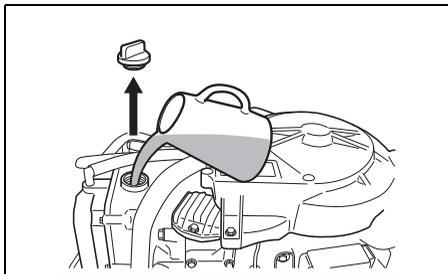
3. Insert the dipstick all the way into the engine, then remove it again.



The oil on the dipstick should be between the upper and lower limits shown on the dipstick. If the oil level indication is near the lower limit, add enough oil to raise the level to the upper limit.

To fill the engine oil:

1. Remove the oil filler cap.
2. Fill the recommended engine oil to the upper level.



### **NOTICE**

Running the engine with an excessive amount of oil can damage the engine.

**Do not overfill the engine with oil.**

3. Tighten the oil filler cap securely.

- **Check the battery solution level.**  
The level should be kept between the MAX and the MIN level lines at all times. If the level drops below the MIN level line, refer to MAINTENANCE section.
- **Make sure that the battery leads are securely connected to the battery terminals.**
- **Visually check the propeller to make sure it is not damaged.**
- **Make sure that the motor is securely mounted to the transom.**
- **Check for proper operation of the Power Trim and Tilt.**
- **Make sure you have the boating safety and emergency equipment on board.**
- **Make sure that the emergency stop switch operates properly.**
- **Make sure the obstacle is not attached to water intake hole.**

## **BREAK-IN**

Proper operation during this break-in period will help ensure maximum life and performance from your engine. The following guidelines will explain proper break-in procedures.

### **NOTICE**

Failure to follow the break-in procedures described below can result in severe engine damage.

**Be sure to follow the engine break-in procedures described below.**

**Break-in period:** 10 hours

### **Break-in procedure**

1. For the initial 2 hours:  
Allow sufficient idling time (about 5 minutes) for the engine to warm up after cold engine starting.

### **NOTICE**

Running at high speed without sufficient warm-up may cause severe engine damage such as piston seizure.

**Always allow sufficient idling time (5 minutes) for the engine to warm-up before running at high speed.**

After warming up, run the engine at idling speed or the lowest in-gear speed for about 15 minutes.

During the remaining 1 hour and 45 minutes, if safe boating conditions permit, operate the engine in gear at less than 1/2 (half) throttle (3000 r/min.).

**NOTE:**

You may throttle up beyond the recommended operating range to plane your boat, then immediately reduce the throttle to the recommended operating range.

- For the next 1 hour:  
Safe boating conditions permitting, operate the engine in gear at 4000 r/min. or at three-quarter throttle. Avoid running the engine at full throttle.
- Remaining 7 hours:  
Safe boating conditions permitting, operate the engine in gear at desired engine speed. You may occasionally use full throttle; however do not operate the engine continuously at full throttle for more than 5 minutes at any time.

**NOTICE**

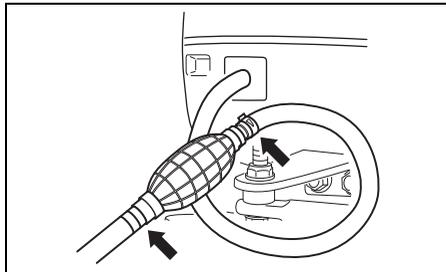
Running continuously at full throttle for more than 5 minutes at a time during the last 7 hours of break-in operation may cause severe engine damage such as seizure.

During the last 7 hours of break-in operation, do not operate at wide open throttle for more than 5 minutes at a time.

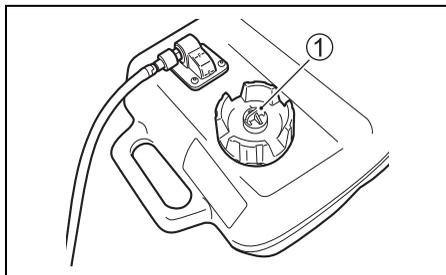
## OPERATION

### BEFORE ATTEMPTING TO START THE ENGINE

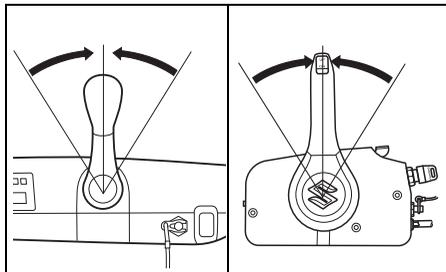
- The motor has been lowered into the water.
- Make sure that the motor fuel hose and the hose from the boat's fuel tank are securely attached and clamped.



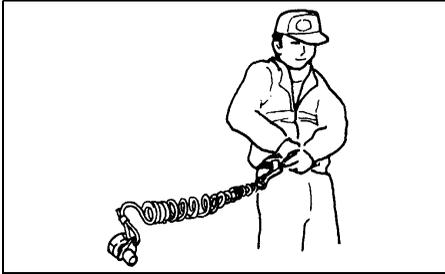
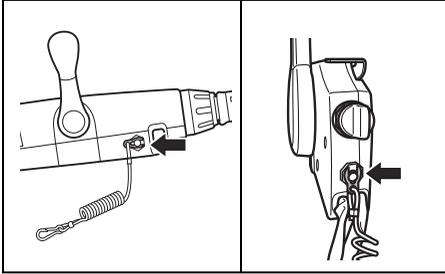
- Twist the air-vent screw ① on the fuel tank cap counterclockwise to open the vent.



- Make sure that the motor is in "NEUTRAL".



5. Make sure the lock plate is in place and attach the emergency stop switch cord to a part of your body.



**▲ WARNING**

Failure to properly attach the emergency stop switch cord or to take proper precautions to help ensure that the emergency stop switch works as intended may result in serious injury or death to the operator or passengers.

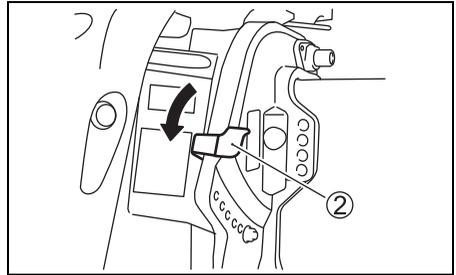
Always take the following precautions:

- Make sure that the emergency stop switch cord is fastened securely to the operator's wrist or to an appropriate clothing area (belt etc.).
- Ensure that no obstructions impede or restrict emergency stop switch operation.
- Be careful not to pull the stop switch cord or knock out the lock plate during normal operation. The motor will stop abruptly, and the loss of forward motion may unexpectedly throw occupants forward.

**NOTE:**

A spare plastic lock plate is provided for temporary use only. Remove it from the cord and place it in a safe place on board your boat. If you lose or break the emergency stop switch cord/lock plate assembly, replace it as soon as possible so that you can resume normal use of the emergency stop switch.

6. Set the tilt lock lever ② to the "Lock" position. (DF40AQH model)



**STARTING THE ENGINE**

**▲ WARNING**

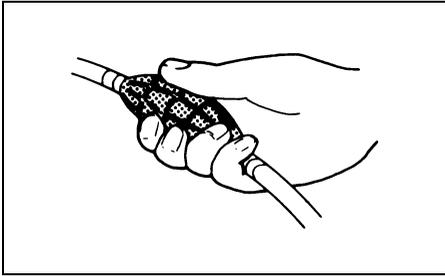
Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

**NOTE:**

If the emergency stop switch lock plate is not in position, the starter motor cannot operate.

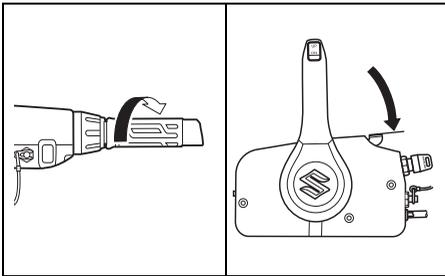
1. Squeeze the fuel line priming bulb several times until you feel resistance.



2. Remote control model:  
Make sure that the warm-up lever is in the fully closed position.

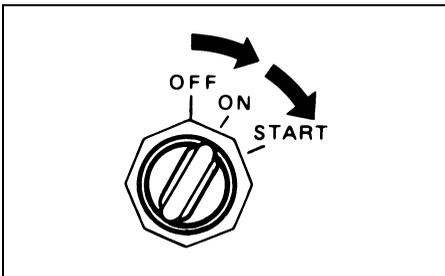
Tiller handle model:

Make sure that the throttle control grip is in the fully closed position.



3. Turn the ignition key to the "ON" position.
4. Turn the ignition key to the "START" position.

After returning the ignition key to "ON" position from "START" one, starter motor continue to turn for 4 seconds until engine start.



### NOTICE

If you hold the ignition key at the "START" position to start the engine, the starter system can be damaged.

Turn the ignition key to the "START" position once and release it to start the engine. The engine will crank continuously for 4 seconds or until the engine starts.

### NOTE:

*The continuous operating time of the starter motor is set at five seconds.*

*When this time is exceeded, the starter motor will automatically stop.*

*If the motor stops, wait about ten seconds for the motor to cool down and try again.*

### NOTICE

If the OIL lamp remains lit while operating the outboard, the oil level may be low enough to damage the engine.

Stop the engine and check the oil level.

5. Warm up the engine for about 5 minutes.

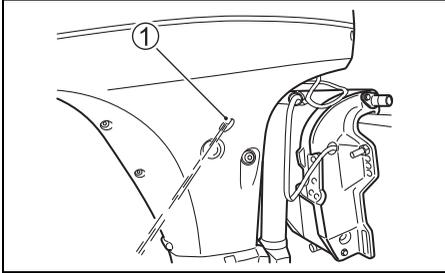
### NOTICE

Operating the engine at high RPM or "wide open throttle" immediately after starting the engine without allowing the engine to warm up may cause engine failure.

Always allow the engine to warm up sufficiently before operating it at high speeds.

## Cooling water check

As soon as the engine starts, water should spray out of the pilot water hole ①, indicating that the water pump and cooling system are working properly. If you notice that water does not spray out of the pilot water hole, stop the engine as soon as possible and consult your authorized Suzuki Marine Dealer.



## NOTICE

Never operate your outboard motor when there is no water coming out of the pilot water hole, or severe damage can result.

After starting the engine, check to make sure that there is water coming out of the pilot water hole.

## WARNING

Operating the boat when the emergency stop switch is not operating properly can be hazardous.

Before starting off, check to make sure that the emergency stop switch operates properly.

## EMERGENCY STARTING

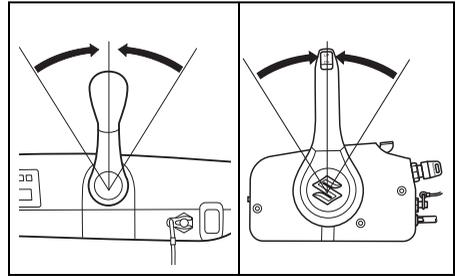
If you must get the engine running, but are unable to do so because of starter system failure or battery discharge, you can use the emergency starting procedure to start the engine.

## WARNING

If you touch electrical components when rope-starting the engine, you can get a severe electrical shock.

When rope-starting the engine, be careful not to touch electrical components such as ignition coils or spark plug leads.

1. Make sure that the motor is in "NEUTRAL" and the emergency stop switch lock plate is removed.

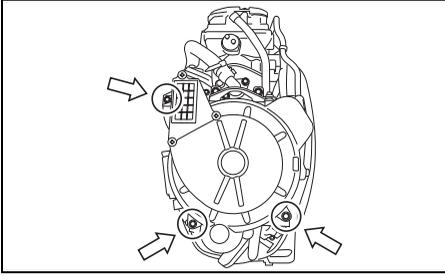


## WARNING

When you use the emergency starting procedure, the start-in-gear protection system will not work. If the shift lever is not in the "NEUTRAL" position, the boat can start off unexpectedly when the engine is started, throwing occupants or causing an accident.

Make sure that the shift lever is in the "NEUTRAL" position before attempting to start the motor using the emergency starting procedure.

2. Remove the motor cover.
3. Remove the flywheel cover.

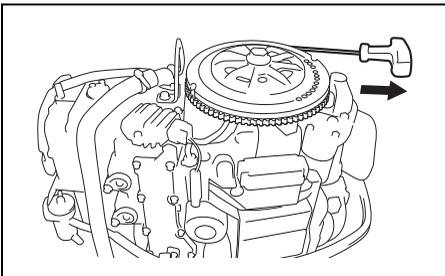


4. Squeeze the fuel line priming bulb several times until resistance is felt.
5. Put the emergency stop switch lock plate in place.
6. Turn the ignition key to the "ON" position and listen for the electric fuel pump to cycle.

**NOTE:**

The initial fuel pump cycle is for a period of 3 seconds after the ignition key is first turned on. If the battery voltage is too low to operate the electric fuel pump, sufficient fuel will not be supplied to start the engine. If you are not sure about fuel pump operation, you may turn the key off, then repeat step #6.

7. Tie a knot in one end of the emergency starter rope located in the tool kit. Tie the other end around the screw-driver handle in the tool kit.
8. Hook the knotted end of the rope in the pulley notch and wind the rope around the pulley in a clockwise direction.
9. After following steps of the normal starting procedure, pull the emergency starter rope sharply to start the engine.



**▲ WARNING**

If you attempt to reinstall the ring gear cover or motor cover after starting the engine you can be injured.

Do not attempt to reinstall the ring gear cover or motor cover after starting the engine.

**▲ WARNING**

When the engine is running, there are many moving parts that could cause severe personal injury.

When the engine is running, keep your hands, hair, clothing, etc., away from the engine.

**NOTE:**

Be sure to have the starter system repaired as soon as possible. You should not continue to use the emergency starting procedure for routine engine starting.

**SHIFTING AND SPEED CONTROL**

**NOTICE**

Severe engine damage may occur if (a) engine speed is not allowed to return to idle and boat speed is not reduced when shifting from "FORWARD" to "REVERSE" or from "REVERSE" to "FORWARD", or (b) care is not taken when operating the boat in reverse.

Always allow the engine speed to return to idle before shifting. Exercise caution and use minimal speed when operating the boat in reverse. Be sure the handle/shift lever is in the desired position before accelerating.

**NOTICE**

If you shift gears when the engine is not running, the shifting mechanism can be damaged.

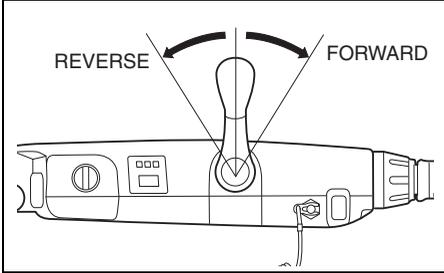
Avoid shifting gears when the engine is not running.

## TILLER HANDLE MODEL

### Shifting

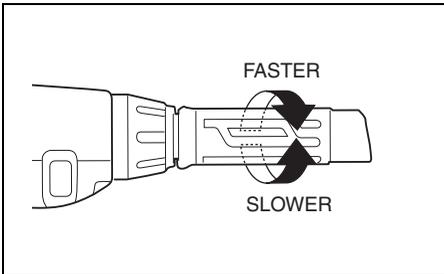
To shift the motor into "FORWARD", set the throttle control grip to the idle position and pull the shift lever towards you firmly.

To shift into "REVERSE", set the throttle to the idle position, and push the shift lever away from you firmly.



### Speed Control

After shifting, control the engine speed by twisting the throttle control grip.

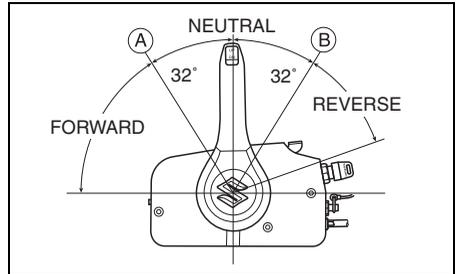


## REMOTE CONTROL MODEL

### Shifting

To shift into "FORWARD", squeeze the lock-out lever on the control handle and move the control handle forward to approximately position (A), as shown in the illustration.

To shift into "REVERSE", squeeze the lock-out lever on the control handle and move the control handle rearward to approximately position (B), as shown in the illustration.



### Speed Control

To increase speed after you have shifted into gear, continue moving the control handle forward or rearward.

## ⚠ WARNING

Since the same handle is used for shifting and speed control it is possible to move the handle past the detent and engage the throttle. This can cause the boat to move suddenly resulting in personal injury or property damage.

You must be careful not to move the control handle too far forward or rearward when shifting.

## STOPPING THE ENGINE

### NOTE:

When it is necessary to stop the engine in an emergency, pull the emergency stop switch lock plate out of the emergency stop switch by pulling the emergency stop switch cord.

To stop the engine:

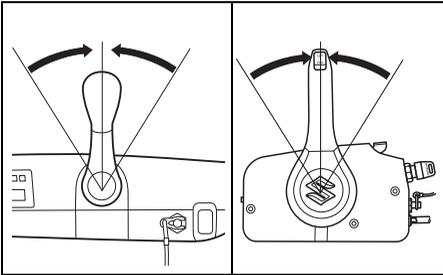
1. Tiller handle model:

Turn the throttle control grip to the idle position.  
Shift into "NEUTRAL".

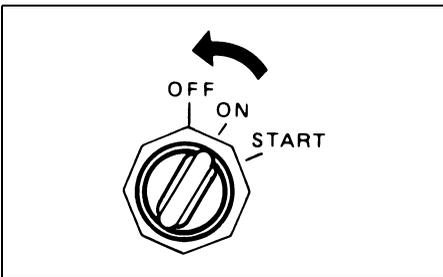
Remote control model:

Shift into "NEUTRAL".

2. After operating at full throttle, cool off the engine a few minutes by allowing it to idle or troll at low speed.



3. Turn the ignition key to the "OFF" position. Always leave the ignition key in the "OFF" position when the motor is not running, or the battery can discharge.



### NOTICE

If the ignition key is left ON when the engine is not running, the battery will discharge.

Always turn the ignition key OFF when the engine is not running.

### ▲ WARNING

Unauthorized use of your boat could lead to an accident or damage to your boat.

To prevent unauthorized use of your boat, be sure to remove the key and emergency stop switch lock plate when the boat is unattended.

4. After stopping the engine, disconnect the fuel line from the outboard motor if there is a fuel connector.

### ▲ WARNING

If you leave the motor stopped for a long period of time with the fuel line connected, fuel can leak out.

Disconnect the fuel line from fuel tank, if there is a fuel connector, whenever you leave the motor stopped for a long period of time.

5. Turn the air-vent screw on the fuel tank cap clockwise to shut the vent (if equipped).

### NOTE:

To make sure that the emergency stop switch operates properly, stop the engine occasionally by pulling out the lock plate, while operating the engine at idling speed.

## MOORING

The motor should be tilted up out of the water when you moor the boat in shallow water or if the motor will not be used for some time, to protect it from damage by underwater obstacles at low tide or corrosion from salt water.

Refer to the TILT BRACKET section for details on how to tilt up the motor.

### NOTICE

Improperly securing your boat may cause damage to your boat or motor, or other property damage.

Do not allow your motor to rub against quay walls, piers or other boats when the boat is tied up.

## OPERATING THE TROLL MODE

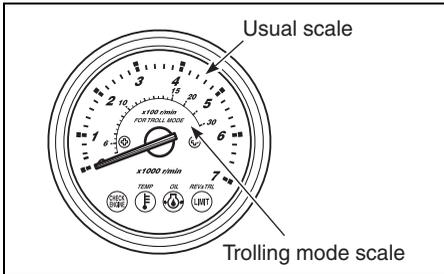
(Remote control model: Option Item,  
Tiller handle model: Standard Item)

On the remote control model, trolling speed can be controlled to install the optional Troll Mode switch.

Please contact your authorized Suzuki Marine Dealer for more information.

### NOTE:

To monitor engine speed correctly during the troll mode operation, Suzuki recommends the use of the Suzuki 2-scale Monitor Tachometer. (Remote control model)



### System Outline

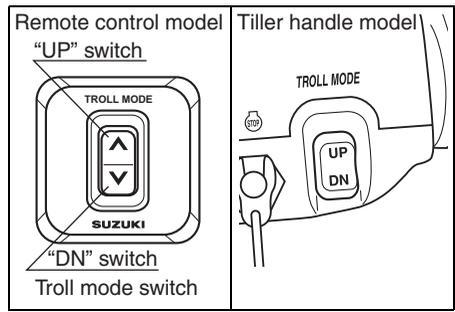
The "Troll Mode System" is activated by pressing the troll mode switch, when the motor is running at in-gear idle speed. By using this system, you can set and maintain a desired engine speed with the control switch in a range from in-gear idle speed (approx. 800 r/min) to 1200 r/min.

### How to use the Troll Mode

#### Setting the troll mode:

1. Shift into forward or reverse gear and make sure that the throttle is fully closed (in-gear idle speed).
2. Press the "UP" or "DN" position of the troll mode switch, until you hear one beep.

On the remote control model, the REV/TRL (or REV) lamp on the monitor gauge will flash indicating that the motor has been set to the troll mode. The REV/TRL (or REV) lamp will continue to flash while the motor is in the troll mode.



### NOTE:

The troll mode system will not operate if the switch is depressed when the handle/shift lever is in the neutral position.

### Adjusting trolling speed:

- When pressing the "UP" switch, one short beep sounds and the engine speed increases by 50 r/min.
- When pressing the "DN" switch, one short beep sounds and the engine speed decreases by 50 r/min.

### NOTE:

- When pressing the "DN" switch at the lower limit of trolling speed, the engine speed will not change and three long beeps will sound.
- When pressing the "UP" switch at the upper limit of trolling speed, the engine speed will not change and three long beeps will sound.
- Shift operation and throttle control remain operational, even in troll mode.

### Cancelling the troll mode:

The troll mode can be cancelled by shifting the handle/shift lever to the neutral position, or by increasing the engine speed to 3000 r/min or more. In both cases, two short beeps sound when cancelling the troll mode.

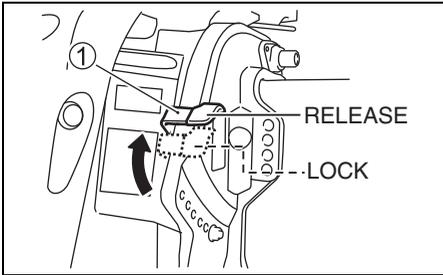
## OPERATION IN SHALLOW WATER

When operating your boat in shallow water, it may be necessary to tilt the motor higher than the normal trim angle. When you tilt the motor beyond the normal trim angle, however, you should only operate the boat at slow speeds. After returning to deep water, be sure to lower the motor to the normal trim angle.

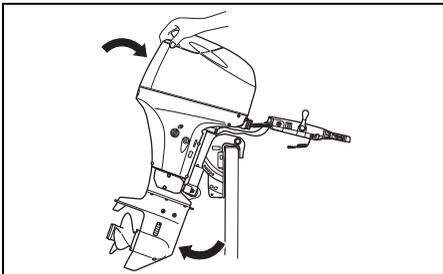
### DF40A (QH) MODEL

To tilt the motor higher than the normal trim angle:

1. Stop the engine.
2. Move the tilt lock lever ① to the release position.



3. Slowly tilt the motor up to appropriate trim angle.



4. Move the tilt lock lever ① to the lock position.

To lower motor back down:

1. Shift into "NEUTRAL".
2. Move the tilt lock lever ① to the release position.
3. Push the handle on the back of motor cover and slowly let the motor down.
4. Move the tilt lock lever ① to the lock position.

### DF40A (T/TH), DF40ASV (T), DF50A (T/TH), DF50AV (T/TH), DF60A (T/TH), DF60AV (T) MODEL

To tilt the motor higher than the normal trim angle, use the Power Trim and Tilt switch.

## ⚠ WARNING

When the motor is beyond the maximum trim position, the swivel bracket will not have side support from the clamp bracket and the tilt system will be unable to cushion the engine if the lower unit strikes an obstruction. This could lead to occupant injury. In addition, beyond the maximum trim position, the water intake holes may be above the water line, which can result in severe engine damage from overheating.

Do not operate the engine above 1500 r/min or operate the boat in a planing attitude with the engine beyond the maximum trim position.

## NOTICE

If the motor hits bottom, serious damage can occur.

Do not allow the motor to hit bottom. If the motor does strike bottom, inspect it immediately for damage.

## OPERATION IN SALT WATER

After operating the motor in salt water, you should flush the water passages with clean, fresh water as outlined in the FLUSHING THE WATER PASSAGES section. If you do not flush the water passages, salt can corrode the motor and shorten its life.

## OPERATION IN FREEZING WEATHER

When operating your outboard motor in freezing temperatures, you should keep the lower unit submerged in the water at all times.

When taking motor out of the water, stand it up in a vertical position until the cooling system drains completely.

### **NOTICE**

**If you leave your outboard motor out of the water in freezing temperatures with water still in the cooling system, the water can freeze and expand, causing severe damage to the motor.**

**When your outboard is in the water in freezing temperatures, keep the lower unit submerged in the water at all times. When the motor is stored out of the water in freezing temperatures stand it up in the vertical position so that the cooling system drains completely.**

## MOTOR REMOVAL AND TRANSPORTING

### MOTOR REMOVAL

If it is necessary to remove the outboard motor from your boat, we recommend that you ask your authorized Suzuki Marine Dealer to do the work for you.

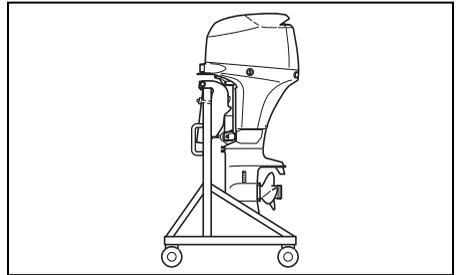
### MOTOR TRANSPORTING

When transporting the motor, place the motor either vertically or horizontally.

#### Vertical transport:

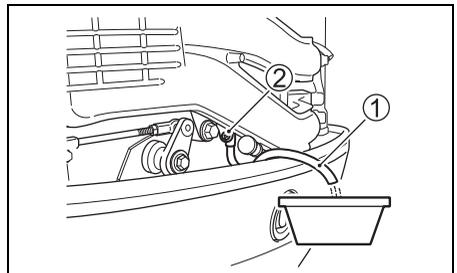
Attach the motor to the carrier by securing clamp bracket with two sets of transom bolt and nut.

Never use display stand for transportation of the motor.



#### Horizontal transport:

1. Drain the engine oil. Refer to the ENGINE OIL section.
2. Drain the gasoline from the vapor separator as follows:
  - (1) Fully steer the motor to the starboard side.
  - (2) Pull the drain hose end ① out.
  - (3) Loosen the vapor separator drain screw ② and drain the gasoline into a suitable container.



## ▲ WARNING

Gasoline is extremely flammable and toxic. It can cause a fire and can be hazardous to people and pets.

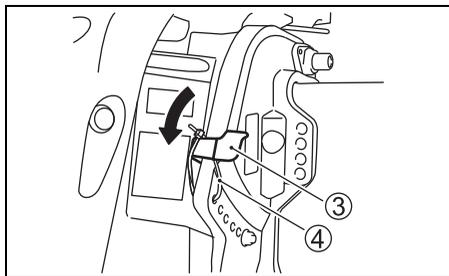
Use a proper, safe container to store any gasoline drained from the outboard motor. Keep gasoline away from sparks, flames, people, and pets.

## NOTICE

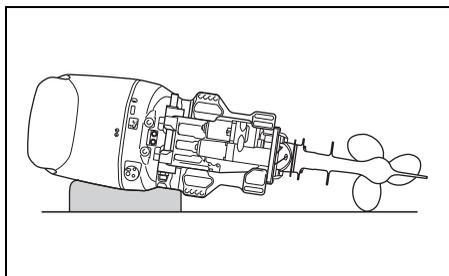
If spilled gasoline is just left on painted surface, it may cause a stain or discoloration of the surface coating.

Wipe off any spilled gasoline immediately with a soft cloth etc.

- (4) After draining, retighten the drain screw and put the drain hose back.
3. Set the tilt lock lever ③ to the "Lock" position. (DF40AQH model)
4. Fix the tilt lock lever not to move, with a cable tie ④, etc., as shown in the figure. (DF40AQH model)



5. Rest the motor on a case protector with the starboard side downwards as shown.



## ▲ WARNING

Spilled fuel or fuel vapor can cause a fire and is hazardous to health.

Always take the following precautions:

- Drain the fuel from the fuel line and fuel vapor separator before transporting the boat/outboard motor and before removing the motor from the boat.
- DO NOT lay motor on its side without draining fuel.
- Keep the motor away from open flames or sparks.
- Wipe up spilled fuel immediately.

## NOTICE

If you are not careful when resting the outboard on its side and do not take proper precautions such as first draining the engine oil and cooling water completely, damage can occur. Engine oil may enter the cylinder from the sump, water may enter the cylinder through the exhaust port, or the outer casings may be damaged.

Always drain the engine oil and cooling water completely before laying the motor on its side, and be careful laying the motor down.

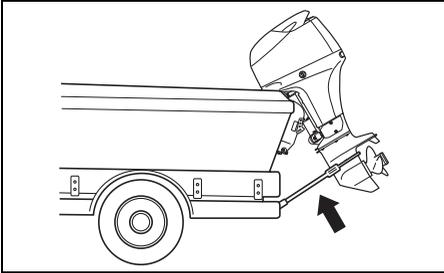
## NOTICE

If you let the lower unit of your outboard sit higher than the power head during transporting or storing, water may trickle into the power head, causing damage to the engine.

Never let the lower unit sit higher than the power head when transporting or storing your outboard.

# TRAILERING

When trailering your boat with the motor attached, keep the motor in the normal operating position unless there is not enough ground clearance. If you need more ground clearance, trailer the motor in a tilted position using a transom saver bar or similar device to support the weight of the motor.



## ***NOTICE***

**If you use the tilt bracket to hold the motor in the fully tilted up position when trailering the boat, towing motion or poor road surfaces may cause unexpected tilt lock release, resulting in damage to the motor and the tilt lock mechanism.**

**Never use the tilt bracket to hold the motor in the fully tilted up position when trailering the boat. Use a transom saver bar or similar device to support the weight of the motor.**

# INSPECTION AND MAINTENANCE

## MAINTENANCE SCHEDULE

It is important to inspect and maintain your out-board motor regularly. Follow the chart below. At each interval, be sure to perform the indicated service. Maintenance intervals should be judged by number of hours or number of months, whichever comes first.

### ▲ WARNING

Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

Interval Item to be serviced	Initial 20 hrs. or 1 month	Every 100 hrs. or every 12 months	Every 200 hrs. or every 12 months	Every 300 hrs. or every 36 months
Spark plug		I		
Breather & Fuel line	I	I		
Engine oil	R	R		
Gear oil	R	R		
Lubrication	I	I		
Anodes (external)	I	I		
* Anodes (internal cylinder block/cylinder head)		I		
Bonding wire	I	I		
Battery	I	I		
* Engine oil filter	R		R	
Low pressure fuel filter	I	I		
	Replace every 400 hours or every 2 years.			
* Idle speed	I		I	
* Valve clearance (lash)				I
* Water pump			I	
* Water pump impeller			I	R
* Propeller nut & pin	I	I		
* Bolts & Nuts	T	T		
* Thermostat		I		

I: Inspect and clean, adjust, lubricate, or replace, if necessary T: Tighten R: Replace

### NOTE:

*Water-separating fuel filter*

*Replace the filter element every 12-months (or more frequently if recommended by the filter manufacturer).*

## ⚠ WARNING

Improper maintenance or failure to perform recommended maintenance can be hazardous. Poor maintenance or lack of maintenance increases the chance of an accident or equipment damage.

Be sure to have maintenance performed according to the schedule in the above chart. Suzuki recommends that only your authorized Suzuki marine dealer or a qualified service mechanic perform maintenance on those items in the chart above which are marked with an asterisk (\*). You may perform maintenance on the unmarked items by referring to the instructions in this section if you have mechanical experience. If you are not sure whether you can successfully complete any of the unmarked maintenance jobs, ask your authorized Suzuki marine dealer to do the maintenance for you.

## ⚠ WARNING

The safety of you and your passengers depends on how well you maintain your outboard motor.

Follow all inspection and maintenance instructions carefully. If you do not have prior mechanical experience, do not attempt to perform maintenance on your outboard motor. You could be injured or may damage the motor.

## NOTICE

The maintenance intervals in the chart are designed for normal usage of your outboard motor. If your outboard motor is used under severe conditions as outlined below, you may need to perform maintenance more often than indicated in the chart.

- Frequent full throttle operation
- Prolonged continuous operation at the maximum speed
- Prolonged continuous operation at idling speed or trolling speed
- Frequent operation in muddy, silty, sandy, acidic or shallow water
- Operation without appropriate warmup

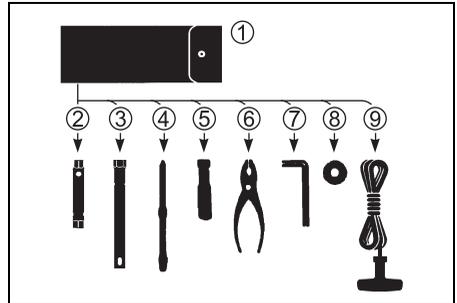
- Frequent abrupt acceleration and deceleration
  - Frequent shift operation
- Failure to perform maintenance more frequently could result in damage.

Consult your authorized Suzuki marine dealer regarding appropriate maintenance intervals for your usage conditions. When replacing parts on your outboard motor, Suzuki strongly recommends that you use genuine Suzuki parts or their equivalent.

## TOOL KIT

A tool kit is provided with your outboard motor. Keep the kit on board your boat and make sure that all of the items provided remain in the kit. The tool kit contains the following items:

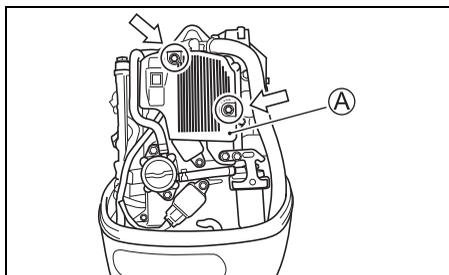
- ① Tool bag
- ② 8 × 10 mm Box wrench
- ③ 16 mm Box wrench
- ④ Combination screw driver
- ⑤ Screwdriver handle
- ⑥ Pliers
- ⑦ Hexagon wrench 8 mm
- ⑧ Engine oil drain plug gasket (spare)
- ⑨ Emergency starter rope



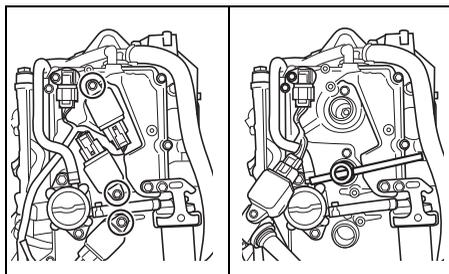
## SPARK PLUG

Remove the spark plugs as follows:

1. Remove the bolts securing the fuel hose guard **A**.



2. Remove the bolt securing the ignition coil.
3. Pull out the ignition coil.
4. Loosen and remove the spark plug using the box wrench in the tool bag.



Your outboard motor comes equipped with the following "standard" spark plug for normal usage.

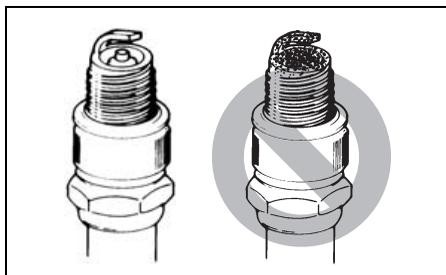
NGK DCPR6E	Standard
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### NOTICE

Non-resistor types of spark plugs will interfere with the function of the electronic ignition, causing misfiring, or causing problems with other electronic boat equipment and accessories.

Use **ONLY** resistor type spark plugs in your outboard motor.

A normally operating spark plug is very light-brown in color. If the standard plug is not suitable for your operating, consult your authorized Suzuki Marine Dealer.



### NOTICE

Use of improper spark plugs or improperly tightening spark plugs can cause severe engine damage.

- Do not experiment with other spark plug brands unless you can determine that they are directly equivalent to the specified brand, or you may experience engine damage which will not be covered under warranty. Note that aftermarket cross-reference charts may not be accurate.
- To install a spark plug; seat it as far as possible by hand, then use a wrench to tighten it to either the recommended torque setting or the specified rotation angle.

#### Tightening torque

15 – 19 N·m  
(1.5 – 1.9 kgf·m, 11 – 14 lbf·ft)

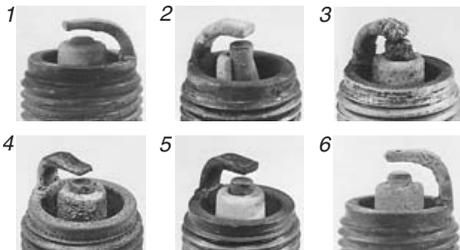
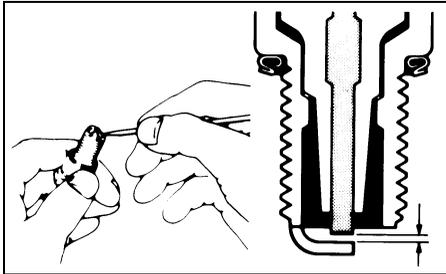
#### Rotation angle

New plug	1/2 – 3/4 of a turn
Re-use plug	1/12 – 1/8 of a turn

- Do not overtighten or cross-thread a spark plug, as this will damage the aluminum threads of the cylinder head.

To maintain a strong spark, you should clean and adjust the plugs at the intervals shown in the maintenance chart. Remove carbon deposits from the spark plugs using a small wire brush or spark plug cleaner, and adjust the gap according to the following chart:

Spark plug gap	0.8 – 0.9 mm (0.031 – 0.035 in)
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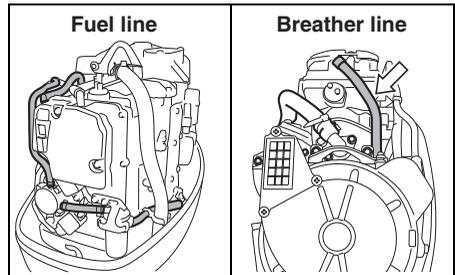
1. Excessive wear    2. Breakage    3. Melting  
4. Erosion    5. Yellow deposits    6. Oxidation

**NOTE:**

*If the spark plug condition is found as shown in the illustration above, ensure it is replaced with new one. Otherwise, it will cause difficulty in starting the engine, increase fuel consumption, and result in engine troubles.*

## BREATHER AND FUEL LINE

Inspect the breather and fuel line for leaks, cracks, swelling, or other damage. If the breather and fuel line is damaged in any way, it must be replaced. Consult your authorized Suzuki Marine Dealer if it is necessary to replace them.



**▲ WARNING**

**Fuel leakage can contribute to an explosion or fire, resulting in serious personal injury.**

**Have your authorized Suzuki Marine Dealer replace the fuel line if there is any evidence of leaking, cracking or swelling.**

## ENGINE OIL

### ⚠ WARNING

Never perform any ENGINE OIL procedure with the motor running, as serious injury can occur.

The motor must be shut off before any ENGINE OIL procedures are performed.

### NOTICE

Extended trolling can reduce oil life. Your engine may be damaged if you do not change engine oil more frequently under this type of use.

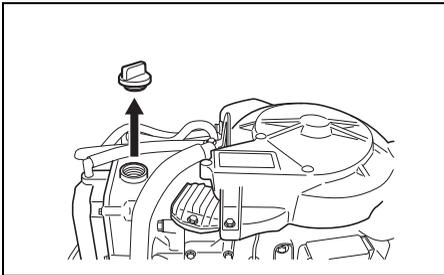
Change your engine oil more frequently if your engine is used for extended trolling.

### Engine oil change

The oil should be changed when engine is warm so that the oil will drain thoroughly from the engine.

To change the engine oil:

1. Place the motor in a vertical position and remove the motor cover.
2. Remove the oil filler cap.



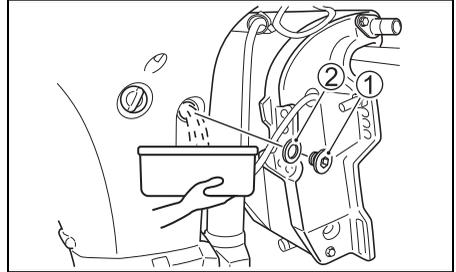
3. Place a drain pan under the engine oil drain screw.

### ⚠ CAUTION

The engine oil temperature may be high enough to burn your fingers when the drain plug is loosened.

Wait until the drain plug is cool enough to touch with bare hands before removing it.

4. Remove the engine oil drain screw ① and gasket ②, then let the engine oil drain.



5. After draining, secure the engine oil drain screw with a new gasket.

### NOTICE

A previously-used gasket may leak, resulting in engine damage.

Do not re-use gaskets. Be sure to always use new gaskets.

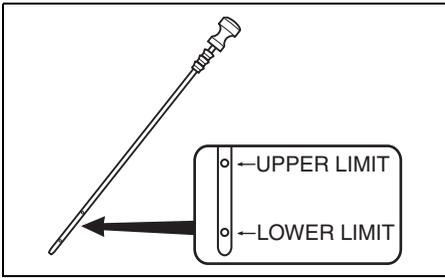
### NOTE:

There are spare gaskets in the tool bag.

6. Fill with recommended engine oil to the upper level.

Oil capacity: 2.7 L

7. Check the engine oil level.



**NOTE:**

To avoid incorrect measurement of engine oil level, check oil level only when the engine has cooled.

8. Reinstall the oil filler cap.

**⚠ WARNING**

Engine oil can cause injury to people or pets. Repeated, prolonged contact with used engine oil may cause skin cancer. Even brief contact with used oil may irritate skin.

- Keep new and used oil away from children and pets.
- Wear a long-sleeve shirt and waterproof gloves when handling oil.
- Wash with soap if oil contacts your skin.
- Launder any clothing or rags that are wet with oil.

**NOTE:**

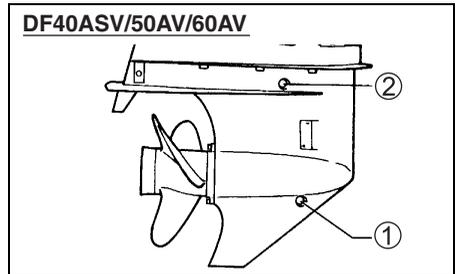
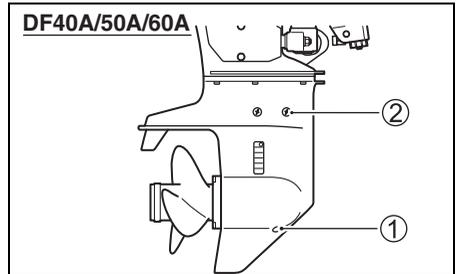
Recycle or properly dispose of used engine oil. Do not throw it in the trash, or pour it on the ground, down a drain, or into the water.

## GEAR OIL

To check the gear oil level, remove the upper oil level plug and look into the hole. The oil level should be at the bottom edge of the hole. If the oil level is low, add the specified gear oil until the level reaches the bottom edge of the hole. Then, reinstall and tighten the plug.

To change the gear oil:

1. Make sure the motor is in an upright position. Place a drain pan under the lower casing.
2. Remove the gear oil drain plug ①, then remove the gear oil level plug ②.



3. After the oil has drained completely, inject the specified gear oil into the lower drain hole until it just starts to come out of the upper level hole.

**DF40A/50A/60A MODEL:**

Approximately 0.61 L (0.64/0.54 US/Imp. qt.) will be required.

**DF40ASV/50AV/60AV MODEL:**

Approximately 1.05 L (1.11/0.92 US/Imp. qt.) will be required.

4. Reinstall and tighten the gear oil level plug ②, then quickly reinstall and tighten the gear oil drain plug ①.

**NOTE:**

To avoid insufficient injection of gear oil, check the gear oil level 10 minutes after doing the procedure in the step 4. If the oil level is low, slowly inject the gear oil up to the correct level.

**⚠ WARNING**

Gear oil can cause injury to people or pets. Repeated, prolonged contact with used gear oil may cause skin cancer. Even brief contact with used oil may irritate skin.

- Keep new and used oil away from children and pets.
- Wear a long-sleeve shirt and waterproof gloves when handling oil.
- Wash with soap if oil contacts your skin.
- Launder any clothing or rags that are wet with oil.

**NOTE:**

Recycle or properly dispose of used gear oil. Do not throw it in the trash, or pour it on the ground, down a drain, or into the water.

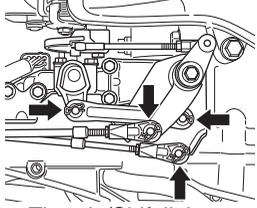
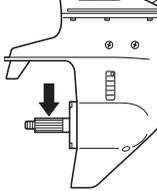
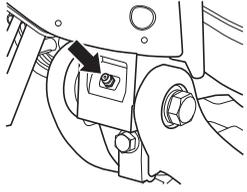
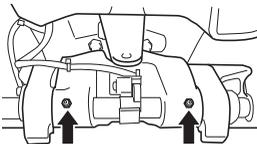
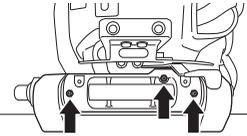
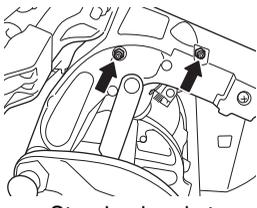
**NOTICE**

If fishing line wraps around the rotating propeller shaft, the propeller shaft oil seal can become damaged and can allow water to enter the gear case causing severe damage.

If the gear oil has a milky color, it is contaminated with water. Immediately contact your authorized Suzuki marine dealer for advice. Do not operate your outboard until the oil is changed and the cause of the contamination is corrected.

**LUBRICATION**

Proper lubrication is important for the safe, smooth operation and long life of each working part of your outboard motor. The following chart shows the lubrication points of your motor and the recommended lubricant:

LOCATION	LUBRICANT
 <p>Throttle/Shift linkage</p>	Marine-grade water resistant grease
 <p>Propeller shaft</p>	
 <p>Tiller handle (If there is a grease nipple)</p>	Marine-grade water resistant grease (Grease Gun)
 <p>Swivel bracket</p>	
 <p>Swivel bracket (DF40AQH/50ATH)</p>	
 <p>Steering bracket</p>	

**NOTE:**

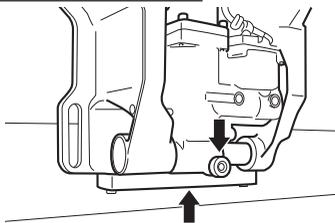
Before applying grease through the steering bracket grease nipple, lock the motor in the fully tilted up position.

## ANODES AND BONDING WIRES

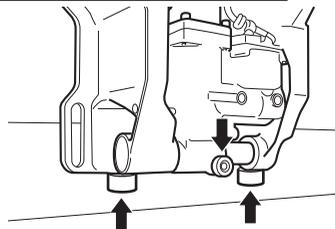
### Anodes

The motor is protected from exterior corrosion by anodes. These pieces of anodes control electrolysis and prevent corrosion. The anodes will corrode in place of the parts they are protecting. You should periodically inspect each of the anodes and replace them when 2/3 of the metal has corroded away.

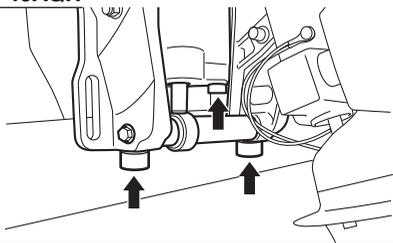
**DF40AST/60AT/60ATH**



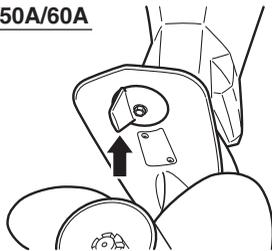
**DF40A/40ASV/50A/50AV/60AV**



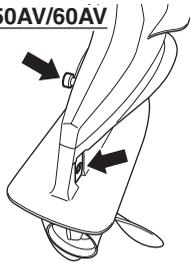
**DF40AQH**



**DF40A/50A/60A**



**DF40ASV/50AV/60AV**



### NOTICE

If anodes are not properly maintained, underwater aluminum surfaces (such as the lower unit) will suffer galvanic corrosion damage.

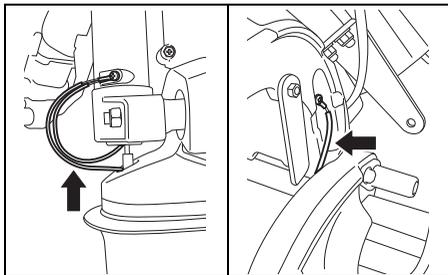
- Periodically inspect anodes to make sure they have not become detached.
- Do not paint anodes, as this will render them ineffective.
- Periodically clean anodes with a wire brush to remove any coating which might decrease their protective ability.

**NOTE:**

Consult your authorized Suzuki Marine Dealer for inspection and replacement of internal anodes attached to the cylinder block/cylinder head.

## Bonding wires

Bonding wires are used to electrically connect the engine components so they exist in a common ground circuit. This allows them to be protected against electrolysis by the anodes. These wires and their terminals should be checked periodically to be sure they have not been damaged.



## BATTERY

The battery solution level must be kept between the MAX and the MIN level lines at all times. If the level drops below the MIN level line, add **DISTILLED WATER ONLY** until the battery solution level reaches the MAX level line.

### ⚠ WARNING

**Battery acid is poisonous and corrosive, and can cause severe injury.**

**Avoid contact with eyes, skin, clothing, and painted surfaces. If battery acid comes in contact with any of these, flush immediately with large amounts of water. If acid contacts the eyes or skin, get immediate medical attention.**

### ⚠ WARNING

**If you are not careful when checking or servicing the battery, you can cause a short circuit, which could result in an explosion, fire, or circuit damage.**

**Disconnect the negative (black) cable when checking or servicing the battery. Be careful not to allow a metal tool or other metal object to touch the battery's positive terminal and the motor at the same time.**

### ⚠ WARNING

**Battery posts, terminals, and related accessories contain lead and lead compounds that may be hazardous.**

**Wash hands after handling.**

### NOTICE

**If you add diluted sulphuric acid to the battery after it has been initially serviced, you will damage the battery.**

**NEVER add diluted sulphuric acid to the battery after it has been initially serviced. Follow the battery manufacturer's instructions for specific maintenance procedures.**

## ENGINE OIL FILTER

The engine oil filter must be changed by an authorized Suzuki Marine Dealer periodically. Replace engine oil filter with a new one at initial 20 hours (1 month).

Replace engine oil filter with a new one at every 200 hours (12 months).

## FUEL FILTER

The fuel filter must be inspected by authorized Suzuki Marine Dealer periodically.

### Low pressure fuel filter

Inspect low pressure fuel filter at initial 20 hours (1 month).

Inspect low pressure fuel filter at every 100 hours (12 months).

Replace low pressure fuel filter with a new one at every 400 hours (2 years).

# FLUSHING THE WATER PASSAGES

After operation in muddy, brackish, or salt water, you should flush the water passages and motor surface with clean, fresh water.

If you do not flush the water passages, salt can corrode the motor and shorten its life. Flush the water passages as follows.

## ENGINE RUNNING – Vertical position –

Suzuki recommends that you flush the water passages by using this method.

### ⚠ WARNING

Exhaust gas contains carbon monoxide, a dangerous gas that is difficult to detect because it is colorless and odorless. Breathing carbon monoxide can cause death or severe injury.

Never start the engine or let it run indoors or where there is little or no ventilation.

### ⚠ WARNING

Failure to take proper precautions when flushing the water passages can be hazardous.

When flushing the water passages, always take the following precautions:

- Make sure that the engine remains in NEUTRAL. If shifted into gear, the propeller shaft will turn and could cause severe personal injury.
- Make sure the motor is properly clamped to a secure stand or boat, and remain in attendance until flushing is completed.
- Keep children and pets away from the area, and stay clear of all moving parts.

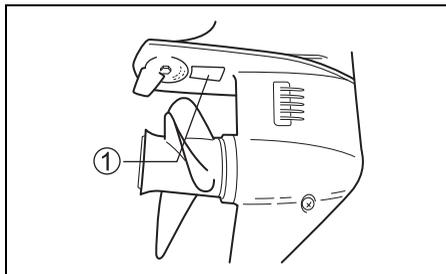
### NOTICE

Severe engine damage can occur in as little as 15 seconds if the engine is started without supplying water to the cooling system.

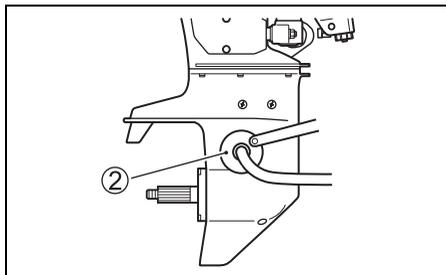
Never start the motor without supplying water to the cooling system.

To flush the water passages, you must obtain a commercially available engine flush device.

1. Make sure that the motor is stopped.
2. Plug the water intake hole ① with a piece of duct tape. (except DF40ASV/50AV/60AV model)



3. Install the flushing attachment ② so that the water intake holes are covered by the rubber cups on the attachment.

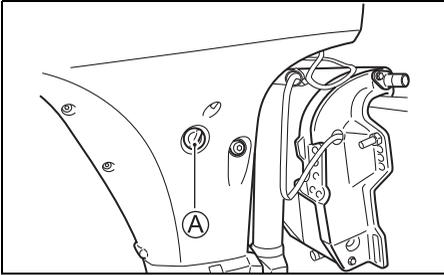


4. Connect a garden hose to the flushing attachment and turn on the water to obtain enough flow so that plenty of excess water is flowing out from around the rubber cups on the attachment.
5. Shift the motor into "NEUTRAL" and remove the propeller. Start the motor and allow it to run at idle.
6. Readjust the water flow, if necessary, so that there is still plenty of excess water flowing out from around the rubber cups.
7. Allow the water to continue circulating for a few minutes.
8. Stop the motor, then turn off the water.
9. Remove the flushing attachment and remove the duct tape from the water intake hole.
10. Clean the motor surface and apply a coat of automotive wax on the external finish of the motor.

## ENGINE NOT RUNNING

### – Vertical position –

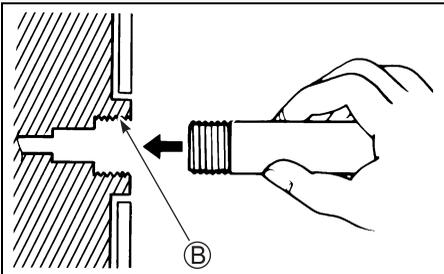
1. Make sure that the motor is stopped.
2. Remove the plug **A** from the flushing port.



3. Install garden hose by using a hose connector matched to flushing port thread **B**.  
Thread **B**: 0.75 – 11.5 NHR (American standard hose coupling threads for garden hose applications.)

#### NOTE:

*The hose connector (flushing attachment) matched to the flushing point thread **B** is included in the crate parts.*



4. Turn on the water to obtain a good water flow. Flush the engine for about five minutes.
5. Turn off the water.
6. Remove the hose and connector (if used) then reinstall the plug into the flushing port.
7. Leave the motor in a vertical position until the engine is drained completely.

## ENGINE NOT RUNNING

### – Full tilt up position –

1. Raise the engine to the full tilt up position.
2. Follow the “ENGINE NOT RUNNING – Vertical position” instructions.  
**DO NOT RUN ENGINE IN THE FULL TILT UP POSITION.**
3. Lower the motor to a vertical position until the engine is drained completely.

# SUBMERGED MOTOR

A motor that has been accidentally submerged in water must be overhauled as soon as possible to prevent corrosion. In the event that your motor is accidentally submerged, take the following steps:

1. Get the motor out of the water as soon as possible.
2. Wash it thoroughly with fresh water to completely remove all salt, mud, and seaweed.
3. Remove the spark plugs. Drain the water from the cylinders through the spark plug holes by manually turning the flywheel several times.
4. Check if any water is evident in the engine oil. If water is seen, remove the oil drain plug and drain the oil. After draining, tighten the oil drain plug.
5. Drain the fuel line.

## **WARNING**

**Gasoline is extremely flammable and toxic. It can cause a fire and can be hazardous to people and pets.**

**Keep flames and sparks away from gasoline. Dispose of unwanted fuel properly.**

6. Pour engine oil into the engine through the spark plug holes. Coat the engine inner parts with oil by turning the engine over with the emergency starter rope.

## **NOTICE**

**Severe engine damage may occur if you continue cranking the engine when you encounter friction or resistance.**

**If you encounter friction or resistance while cranking the engine, stop at once and do not attempt to start the engine until you find and correct the problem.**

7. Take the motor to your authorized Suzuki Marine Dealer as soon as possible to be overhauled.

## **NOTICE**

**If the fuel supply is contaminated with water, engine damage may occur.**

**If the boat's fuel tank filler and vent were submerged, inspect the fuel supply to make sure it is not contaminated with water.**

# STORAGE PROCEDURE

## MOTOR STORAGE

When storing your motor for a long period of time (for example, at the end of the boating season), it is recommended that you take your motor to your authorized Suzuki Marine Dealer. However, if you choose to prepare the motor for storage yourself, follow the procedure outlined below:

1. Change the gear oil as outlined in the GEAR OIL section.
2. Change the engine oil as outlined in the ENGINE OIL section.
3. Fill a fuel stabilizer to the fuel tank according to the instructions on the stabilizer can.
4. Flush the water passages in the motor thoroughly. Refer to the FLUSHING THE WATER PASSAGES (Engine running) section.
5. Readjust the water flow, run the engine at about 1500 r/min in neutral for five minutes to distribute the stabilized fuel through the engine.
6. Stop the engine. Then turn off the water and disconnect the flushing attachment.
7. Lubricate all other specified parts. Refer to the LUBRICATION section.
8. Wash the exterior of the engine with fresh water. After washing, the water remaining on the engine should be wiped off with dry clothes.  
High pressure washer should be used only for washing exterior. And the nozzle of the high pressure washer should be well away from the engine.
9. Apply a coat of automotive wax on the external finish of the motor. If paint damage is evident, apply touch up paint before waxing.
10. Store the motor in an upright position in a dry, well-ventilated area.

### WARNING

When the engine is running, there are many moving parts that could cause severe personal injury.

When the engine is running, keep your hands, hair, clothing, etc., away from the engine.

### NOTICE

Severe engine damage can occur in as little as 15 seconds if the engine is started without supplying water to the cooling system.

Never start the motor without supplying water to the cooling system.

## BATTERY STORAGE

1. When the outboard motor will not be used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reusing it.
2. If the battery will be stored for a long period of time, check the specific gravity of the battery solution at least once a month and recharge the battery when low.

### WARNING

Failure to take proper precautions when charging the battery can be hazardous. Batteries produce explosive vapors that can ignite. Battery acid is poisonous and corrosive, and can cause severe injury.

- Do not smoke and keep battery away from open flames and sparks.
- To avoid creating a spark when charging the battery, connect the battery charger cables to the proper terminals before turning the charger on.
- Handle the battery with extreme care and avoid skin contact with battery acid.
- Wear proper protective clothing (Safety glasses, gloves, etc.)

## AFTER STORAGE

When taking your motor out of storage, follow the procedure below to return it to operating condition:

1. Thoroughly clean the spark plugs. Replace them if necessary.
2. Check the gear-case oil level and if necessary, add gear oil according to the procedure outlined in the GEAR OIL section.
3. Lubricate all moving parts according to the LUBRICATION section.
4. Check the engine oil level.
5. Clean the motor and wax the painted surfaces.
6. Recharge the battery before installing it.

## TROUBLESHOOTING

This troubleshooting guide is provided to help you find the cause of common complaints.

### ***NOTICE***

**Failure to troubleshoot a problem correctly can damage your outboard motor. Improper repairs or adjustments may damage the outboard motor instead of fixing it. Such damage may not be covered under warranty.**

**If you are not sure about the proper action to correct a problem, consult your Suzuki marine dealer.**

#### **Starter motor will not operate:**

- Shift lever is not in NEUTRAL.
- Fuse is blown out.
- Emergency stop switch lock plate is not in position.

#### **Engine will not start (hard to start):**

- Fuel tank is empty.
- Fuel hose is not properly connected to engine.
- Fuel hose is kinked or pinched.
- Spark plug is fouled.

#### **Engine idles unstably or stalls:**

- Fuel hose is kinked or pinched.
- Spark plug is fouled.

#### **Engine speed will not increase (Engine power is low):**

- Engine is overloaded.
- Caution/Diagnostic system is activated.
- Propeller is damaged.
- Propeller is not properly matched to loads.

#### **Engine vibrates excessively:**

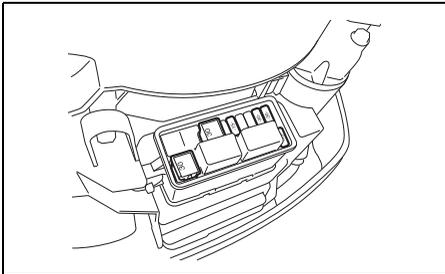
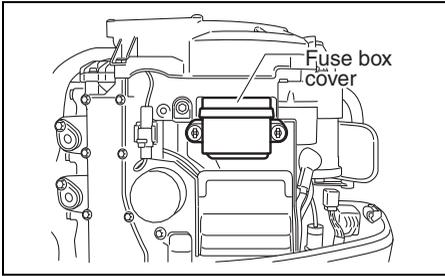
- Engine mounting bolts or clamp screws are loose.
- Foreign object (seaweed etc.) is tangled on propeller.
- Propeller is damaged.

#### **Engine overheats:**

- Cooling water intake(s) are blocked.
- Engine is overloaded.
- Propeller is not properly matched to loads.

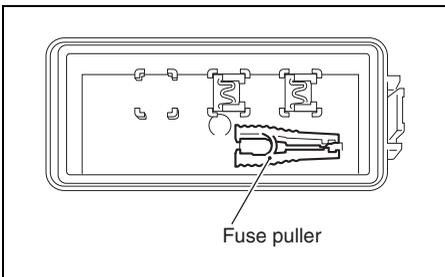
## FUSE

1. Turn the ignition key to the "off" position.
2. Remove the motor cover.
3. Remove the fuse box cover and pull off the fuse.

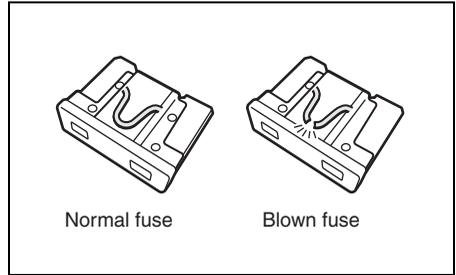
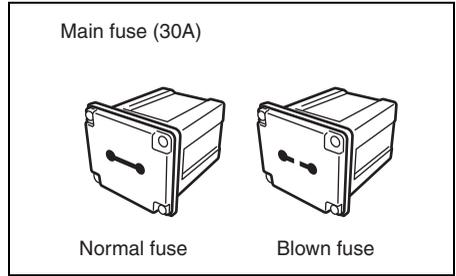


### NOTE:

Use the fuse puller at the back of fuse box cover, when the fuse is pulled off and installed.



4. Inspect the fuse and replace with the new fuse if needed.



### NOTE:

If a fuse is blown, try to determine the root cause and correct it.

If the cause is not corrected, the fuse may be blown again.

## ⚠ WARNING

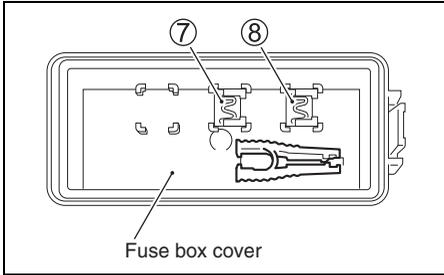
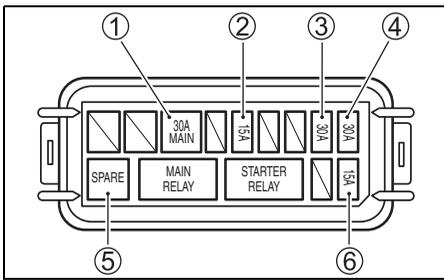
If you replace a blown fuse with a fuse having a different amperage rating or with a substitute such as aluminum foil or a wire, extensive electrical system damage and a fire may result.

Always replace a blown fuse with a fuse of the same type and rating.

## NOTICE

If a new fuse blows in a short time after installation, you may have a major electrical system problem.

Consult your SUZUKI marine dealer.



- ① Main fuse: 30A
- ② PTT switch fuse: 15A
- ③ Ignition coil/Injector/ECM/IAC fuse: 30A
- ④ Starter motor relay fuse: 30A
- ⑤ Spare fuse: 30A
- ⑥ Fuel pump fuse: 15A
- ⑦ Spare fuse: 30A
- ⑧ Spare fuse: 15A

**NOTE:**

Spare fuses ⑦ and ⑧ are provided for the back of fuse box cover.

## SPECIFICATIONS

Item	DF40A	DF40AS	DF40ASV	DF50A/ 50AV	DF60A/ 60AV
Engine Type	4 Stroke				
Number of Cylinders	3				
Bore and Stroke	72.5 × 76.0 mm (2.85 × 2.99 in)				
Piston Displacement	941 cm <sup>3</sup> (57.4 cu. in)				
Maximum output	29.4 kW (40PS)			36.8 kW (50PS)	44.1 kW (60PS)
Full Throttle Operating Range	5000 – 6000 r/min. (min <sup>-1</sup> )	5300 – 6300 r/min. (min <sup>-1</sup> )			
Ignition System	Full-transistor				
Engine Lubrication	Trochoid pump pressure lubrication				
Engine Oil Capacity	2.7 L (2.9/2.4 US/Imp. qt.)				
Gear Oil Capacity	DF40A/50A/60A model: 0.61 L (0.64/0.54 US/Imp. qt.) DF40ASV/50AV/60AV model: 1.05 L (1.11/0.92 US/Imp. qt.)				
Spark Plug	NGK DCPR6E				
Spark Plug Gap	0.8 – 0.9 mm (0.031 – 0.035 in)				
Valve Clearance (Lash)	IN.: 0.18 – 0.22 mm (0.007 – 0.009 in) EX.: 0.28 – 0.32 mm (0.011 – 0.013 in)				
Fuel Type	Alcohol-free unleaded gasoline				
Minimum Fuel Octane Rating	91 (Research method)				

# INFORMATION REGARDING EC – DIRECTIVE

(For European countries)

## Sound Pressure Level

Regulation	Sound pressure level limit
2013 / 53 / EU	72 dB (A): DF40A/50A 75 dB (A): DF60A

Sound pressure level is measured according to ISO 14509-1:2018.

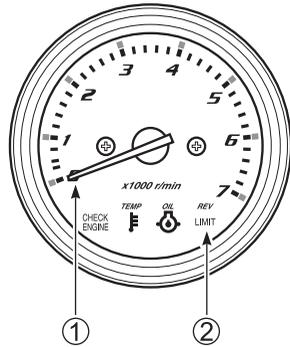
## Vibration on tiller handle grip

Tiller handle grip vibration total value of this motor measured under related EC Directive does not exceed 2.5m/s<sup>2</sup>. The vibration measurement is performed specified in ISO 5349-1986.

## CHART OF TOTAL OPERATING HOURS INDICATION (REMOTE CONTROL MODEL)

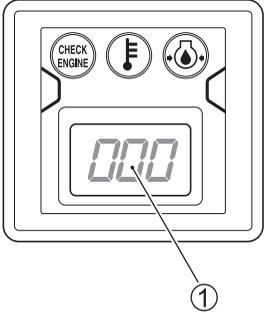
Total operating hours	MONITOR-TACHOMETER	
	Needle ① indication	REV-LIMIT lamp ② flashing *
0h-(49h)	No	No
50 h-	500 r/min	No
60 h-	600 r/min	No
:	:	:
:	:	:
540 h-	5400 r/min	No
550 h-	500 r/min	1 time
560 h-	600 r/min	1 time
:	:	:
:	:	:
1040 h-	5400 r/min	1 time
1050 h-	500 r/min	2 times
:	:	:
:	:	:
1540 h-	5400 r/min	2 times
1550 h-	500 r/min	3 times
:	:	:
:	:	:
2030 h-	5300 r/min	3 times
2040 h or over	5400 r/min	3 times

\*: One flashing is corresponded to 500 hours.



# (TILLER HANDLE MODEL)

Total operating hours	Tachometer ① indication	
	1st indication (Indication of number of time in which the operating hours attain to 500 hours in the 3rd digit.)	2nd indication (The hours subtracted the hours indicated in the first step indication from the total operating hours. [Indicated in units of 10 hours])
0h - 50h	0	0
51h - 59h		50
⋮		⋮
⋮		⋮
300h - 309h		300
⋮		⋮
⋮		⋮
540h - 549h		540
550h - 559h		50
⋮		⋮
⋮	⋮	
800h - 809h	100 (1 time)	300
⋮		⋮
⋮		⋮
1040h - 1049h		540
1050h - 1059h	200 (2 times)	50
⋮		⋮
⋮		⋮
1300h - 1309h		300
⋮		⋮
⋮		⋮
1540h - 1549h	300 (3 times)	540
1550h - 1559h		50
⋮		⋮
⋮		⋮
1800h - 1809h		300
⋮		⋮
⋮		⋮
2040h and over		remaining at 540



## Tachometer indication procedure

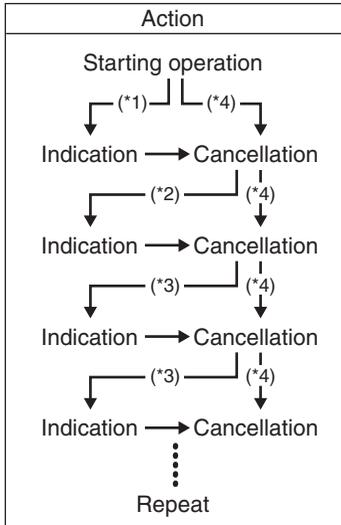
Lapse of Time	Tachometer indication
First 2 seconds after main switch is turned on	"0"
Next 2.5 seconds (1st indication)	Indication of number of time in which the operating hours attain to 500 hours in the 3rd digit.
Next 1 second	"0"
Next 3 seconds (2nd indication)	The hours subtracted the hours indicated in the first step indication from the total operating hours. (Indicated in units of 10 hours)

**NOTE:**

“0” of the first step indication signifies 0 time, “100” means 1 time (500 hours), “200” means 2 times (1000 hours = 500 × 2), and “300” means 3 times (1500 hours = 500 × 3).

The total operating hours are the sum of hours indicated in the first step indication, and the indicated hours of second step indication (indicated in units of 10 hours).

## FLOWCHART OF OIL CHANGE REMINDER SYSTEM



\*1: Lapse of initial 20 hour's operation

\*2: Lapse of 80 hour's operation

\*3: Lapse of 100 hour's operation

\*4: When performing cancellation before system activation

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