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SAFETY

READ THIS MANUAL THOROUGHLY

If you don't understand any portion, contact your dealer for a demonstration of actual starting and operating procedures.

NOTICE

Throughout this publication, and on your outboard, DANGER, WARNINGS and CAUTIONS, accompanied by the international HAZARD Symbol △, may be used to alert the installer/user to special instructions concerning a particular service or operation that may be hazardous if performed incorrectly or carelessly OBSERVE THEM CAREFULLY.

These “Safety Alerts” alone cannot eliminate the hazards that they signal. Strict compliance to these special instructions while performing the service, plus “common sense” operation, are major accident prevention measures.

△ DANGER

DANGER = Immediate hazards which WILL result in severe personal injury or death.

△ WARNING

WARNING = Hazards or unsafe practices which COULD result in severe personal injury or death.

△ CAUTION

CAUTION = Hazards or unsafe practices which could result in minor personal injury or property damage.

IMPORTANT = Indicates information or instructions that are necessary for proper operation and/or maintenance.

△ WARNING

The operator (driver) is responsible for the correct and safe operation of the boat, the equipment aboard and the safety of all occupants aboard. We strongly recommend that the operator read this Operation and Maintenance Manual and thoroughly understand the operational instructions for the outboard and all related accessories before the boat is used.

AWARNING

The following advantages and disadvantages of an EMERGENCY STOP SWITCH (lanyard type) should be considered before electing to use, or not to use, such a switch.

ADVANTAGES: The purpose of an EMERGENCY STOP SWITCH is to stop the engine when the operator leaves his control station, either accidentally by falling into the boat, or by falling or being ejected overboard. This is most likely in certain types of boats such as low sided bass boats, high performance boats and light sensitive handling, fishing boats operated by hand-tiller. It is also likely as a result of poor operating practices such as sitting on the back of the seat at planing speeds, standing at planing speeds, operating at high speeds in shallow or obstacle infested waters, drinking and driving, or daring, high speed boat maneuvers.

DISADVANTAGES: Inadvertent activation of the switch is also a possibility. This could cause any or all of the following potentially hazardous situations:

• Loss of balance and falling forward of unstable boat passengers - a particular concern in bow rider type boats.
• Loss of power and directional control in heavy seas, strong current or high winds.
• Loss of control when docking.

As we cannot possibly know of and advise the boating public of ALL conceivable boat/motor types and/or poor operating practices, the final decision of whether to use an EMERGENCY STOP SWITCH rests with you, the owner/driver.

We strongly recommend that other occupants be instructed on proper starting and operating procedures should they be required to operate the outboard and boat in an emergency.

AWARNING

It is difficult for a person standing or floating in the water to move clear if they see a powerboat heading toward them, even at slow speed. Shift the unit to neutral and shut off engine when your boat is near people in the water.

SERIOUS INJURY IS LIKELY IF A PERSON IN THE WATER IS STRUCK BY A MOVING BOAT, GEAR HOUSING, PROPELLER, OR ACCESSORY RIGIDLY ATTACHED TO YOUR BOAT OR OUTBOARD.

AWARNING

USE CARE when transporting fuel container, whether in a boat or car. DO NOT fill fuel container to maximum capacity. Gasoline will expand considerably as it warms up and can build up pressure in the fuel container. THIS can cause fuel leakage and a potential fire hazard.
FEATURES

1 Top Cover  
2 Shift Handle  
3 Stop Switch  
4 Tilt Pin  
5 Anti Ventilation Plate  
6 Trim Tab  
7 Propeller  
8 Starter Handle  
9 Throttle Grip  
10 Steering Handle  
11 Choke Knob  
12 Transom Clamp Handle  
13 Shallow Water Drive  
14 Carry Handle  
15 Lanyard

SPECIFICATIONS

25 HP (18 kw)

MAXIMUM SPEED

IDLE SPEED
SPECIFICATIONS

1. 400cc (24.4 cu. in.)
2. 65mm (2.56 in.)
3. 60mm (2.36 in.)

NGK BU8H

GASOLINE/OIL MIXTURE RATIO
50:1 (2%)  
1. Quicksilver Outboard Oil or 2-stroke TC-W II outboard oil.

INSTALLATION

Correct
1. Centerline of the boat.

Correct Height
1. Cut off the transom.
2. Place a piece of wood.

Tighten the transom clamp handles securely.
**INSTALLATION**

Drill 2 holes and fasten outboard to transom

1. bolts (2)
2. Flat Washers (2)
3. Lock Nuts (2)
4. Marine Sealer

Fasten security line

**WARNING**
A SECURITY LINE that is long enough to allow the outboard to disengage from the transom but too short to permit the outboard to submerge and stop running could cause the outboard to rebound into the boat and injure the occupants.

- An effective SECURITY LINE should be of a working strength approximately five (5) times the weight of the outboard motor.
- The SECURITY LINE should be SHORT enough and affixed in a manner to prevent the outboard from rising up and disengaging from the transom - OR -
- The SECURITY LINE should be LONG enough and affixed in a manner to permit the outboard to submerge behind the boat and thus stop running.

**FUEL**

Mixing Ratio

- Break-in 50:1 (2%)
- After Break-in 50:1 (2%)

Pour oil into fuel tank.

Pour gasoline into fuel tank.

1. Quicksilver Outboard Oil or 2-stroke TC-W II outboard oil.
2. Gasoline.

**WARNING**
Gasoline and its vapors are flammable and explosive. Always mix fuel and refill tank in a well ventilated area away from heat, sparks and flames.
OPERATION

BREAK-IN

Fuel break-in mixture ratio 50:1 (2%).

1 Operate at trolling speed.

2 Continue operation with half-throttle or less.

STARTING THE ENGINE

Connect fuel hose to tank.

Connect fuel hose to outboard.

Open fuel tank vent.
OPERATION

Prime fuel to the carburetor

Set to RUN

bat shift handle to NEUTRAL

Sat throttle indicator to START

When engine is cold, pull out the choke

Pull the starter rope

Push in the choke

Check for a spray of cooling water from pilot hole
OPERATION

SHIFTING

Set the throttle indicator to SHIFT.

Set shift handle into FORWARD (F) or REVERSE (R).

Turn throttle grip to increase speed.

OPERATION

STOPPING

Turn throttle grip to decrease speed.

Move to OFF.
EMERGENCY STOPPING

1 Lanyard - Fasten between stop switch and drive

WARNING
The following advantages and disadvantages of an EMERGENCY STOP SWITCH (lanyard type) should be considered before electing to use, or not to use, such a switch.

ADVANTAGES: The purpose of an EMERGENCY STOP SWITCH is to stop the engine when the operator leaves his control station, either accidentally by falling into the boat, or by falling or being ejected overboard. This is most likely in certain types of boats such as low sided bass boats, high performance boats and light sensitive handling, fishing boats operated by hand-tiller. It is also likely as a result of poor operating practices such as sitting on the back of the seat at planing speeds, standing at planing speeds, operating at high speeds in shallow or obstacle infested waters, drinking and driving, or daring, high speed boat maneuvers.

DISADVANTAGES: Inadvertent activation of the switch is also a possibility. This could cause any or all of the following potentially hazardous situations:
- Loss of balance and falling forward of unstable boat passengers - a particular concern in bow rider type boats.
- Loss of power and directional control in heavy seas, strong current or high winds.
- Loss of control when docking.

EMERGENCY STARTING

Set the shift handle to NEUTRAL

Remove the top cover. (See page 24)

Remove the rewind starter

WARNING
When using emergency starter rope to start outboard, the start-in-gear protection provided by the rewind starter or remote control is inoperative. Make sure to shift outboard or position remote control handle into neutral before starting outboard to prevent outboard from starting in gear. Sudden unexpected acceleration can cause serious injury or death.

Wind emergency rope around flywheel

Pull rope to start.

WARNING
Care must be taken when using emergency starting procedure. DO NOT attempt to replace rewind starter or cowling after engine has started. Stay clear of flywheel. DO NOT WEAR loose clothing when operating under these conditions.
OPERATION

TILTING UP OUTBOARD

Stop engine.
Set shift handle to FORWARD.

Tilt up the outboard.
Lock in place.

RETURN OUTBOARD TO OPERATING POSITION

Release tilt lock and lower outboard.

OPERATION

SHALLOW WATER OPERATION

Set shift handle to NEUTRAL.

Push down lever.

Tilt up outboard to position.
IMPORTANT: DO NOT operate outboard in REVERSE while in shallow water drive.
OPERATION

DISENGAGING SHALLOW WATER DRIVE

1 Tilt up lever

Tilt up outboard then lower it down

TILT PIN ADJUSTMENT

The boat squats.

1 Move

The boat plows

1 Move

Correct.
**TRIM TAB ADJUSTMENT**

Pulls to left

Correct

Pulls to right

---

**THROTTLE GRIP FRICTION ADJUSTMENT**

Adjust to hold throttle at desired speed.

1. Turn to increase friction

---

**STEERING FRICTION ADJUSTMENT**

Adjust screw for steering friction desired

1. To loosen
2. To stiffen.
MAINTENANCE

REMOVING TOP COVER

Push down lever.

Lift cover off.

FUEL SYSTEM

Fuel Pump Filter

Remove the filter

1 Sight bowl
2 Filter
3 O-ring seal

Wash sight bowl and filter in cleaning solvent.
MAINTENANCE

Carburetor Fuel Bowl

Loosen the drain screw to clean.

PROPELLER SELECTION

1 Propeller part number.
2 Propeller pitch.

3 Check maximum speed.
4 Install a propeller that allows engine to operate at 5000–6000 RPM when running at wide-open-throttle.
MAINTENANCE

PROPELLER REPLACEMENT

Set shift handle to NEUTRAL

Remove spark plug wires

Remove propeller nut.

Apply lubricant to shaft.

Tighten propeller nut securely

1 Thrust hub.

2 Propeller nut.

LUBRICATION POINTS

Every 30 days.

1 Quicksilver 2-4-C Marine Lubricant.

2 Quicksilver Gear Lube or Hypoid Gear Oil #90.
MAINTENANCE

GEAR OIL

Use Quicksilver Gear Lube or Hypoid Gear Oil #60.

Remove the screw plugs and gaskets.

Clean lower plug.

Add oil until it appears at top hole.

Tighten screw plugs.

COOLING SYSTEM

Cleaning

1. Fresh Water.
ELECTRICAL SYSTEM

Remove Spark Plugs.

Clean spark plugs.

CARBURETOR LOW SPEED MIXTURE

Turn screw until its lightly seated, and back out 1-1/2 turns.
ADJUSTMENTS

ENGINE IDLE SPEED

Start engine.
Set shift handle to FORWARD.

Set throttle indicator to SLOW.

Turn screw to obtain 800-900 RPM.

800-900 RPM

SUBMERGED OUTBOARD

Bring outboard to an authorized dealer.

IN AN EMERGENCY

Wash with fresh water
SUBMERGED OUTBOARD

1. Drain fuel hose and carburetor

2. Remove spark plugs and pull starter 2 or 3 times

3. Add oil and pull starter 2 or 3 times

MAINTENANCE

TRIM TAB (Sacrificial Anode)

Replace trim tab if badly corroded

EXTERIOR CARE

Wash and wax using marine cleaners and waxes.
WARRANTY

International Owner Warranty Registration

OUTSIDE THE UNITED STATES and CANADA

- It is important that your selling dealer fills out the Warranty Registration Card completely and mails it to the distributor or Marine Power Service Center responsible for administering the warranty registration/claim program for your area. The Warranty Registration Card identifies your name and address, product model and serial number, date of sale, type of use and the selling distributor’s/dealer’s code number, name and address. The distributor/dealer also certifies that you are the original purchaser and user of the product.
- A copy of the Warranty Registration Card, designated as the "Purchaser's Copy", MUST be given to you immediately after the card has been completely filled out by the selling distributor/dealer. This card represents your factory registration identification, and should be retained by you for future use when required. Should you ever require warranty service on this product, your dealer may ask you for the Warranty Registration Card to verify date of purchase and to use the information on the card to prepare the warranty claim form(s).
- In some countries, the Marine Power Service Center will issue you a permanent (plastic) Warranty Registration Card within 30 days after receiving the "Factory Copy" of the Warranty Registration Card from your distributor/dealer. If you receive a plastic Warranty Registration Card, you may discard the "Purchaser’s Copy" that you received from the distributor/dealer when you purchased the product. Ask your distributor/dealer if this plastic card program applies to you.
- For further information concerning the Warranty Registration Card and its relationship to Warranty Claim processing, refer to the "International Warranty."

IMPORTANT: Product registration records must be maintained by the factory and dealer in some countries by law. It is our desire to have ALL products registered at the factory should it ever be necessary to contact you. Make sure your dealer/distributor fills out the warranty registration card immediately and sends the factory copy to the Marine Power International Service Center for your area.

WARRANTY

International Warranty

OUTSIDE THE UNITED STATES and CANADA

I. We warrant each new production (not those made for high performance purposes) Mercury Outboard Motor or Mariner Outboard Motor and accessories attached thereto, (hereafter referred to as "Product") to be free from defects in material and workmanship, but only when the consumer sale is made in the country to which distribution is authorized by us. This warranty shall remain in effect for a period of one (1) year from date of purchase.

II. Since this warranty applies to defects in material and workmanship, it does not apply to normal worn parts, adjustments, tuneups or to damage caused by: 1) Neglect, lack of maintenance, accident, abnormal operation or improper installation or service; 2) Use of an accessory or part not manufactured or sold by us; 3) Operation with fuels, oils or lubricants which are not suitable for use with the Product; 4) Participating in or preparing for racing or other competitive activity or operating with a racing type lower unit; 5) Alteration or removal of parts; or 6) Water entering engine cylinder/s through exhaust system or carburetor/s.

III. Reasonable access must be provided to the product for warranty service. This warranty will not apply to: 1) Haul-out, launch, towing and storage charges; telephone or rental charges of any type, inconvenience, or loss of time or income, or other consequential damages; or 2) Removal and/or replacement of boat partitions or material because of boat design for necessary access to the Product.

IV. Claim shall be made under this warranty by delivering the Product for inspection to a Mercury Outboard Dealer or Mariner Outboard Dealer authorized to service the Product. If purchaser cannot deliver Product to such authorized Dealer, he may give notice in writing to the nearest Marine Power Service Office or Distributor. The Marine Power Service Office or Distributor shall then arrange for the inspection and repair, if covered by this warranty, provided such service is covered by this warranty. Purchaser shall pay for all related transportation charges and/or travel time. If the service is not covered by this warranty, purchaser shall pay for all related labor and material, and any other expenses associated with that service. Any Product or parts shipped by purchaser for inspection or repair must be shipped with transportation charges prepaid.

V. Purchaser must provide "proof of purchase" and substantiate "date of purchase" by presenting the "Purchaser's Copy" of the "Warranty Registration Card" or the plastic "Warranty Registration Card" to the dealer authorized to service the Product. If either of these items is not available, purchaser must provide a copy of the original "Bill of Sale" (Sales Contract) for the product to be serviced. Warranty Claims will not be accepted until adequate "proof of purchase" is presented by purchaser and the "date of purchase" has been substantiated.

VI. Our obligation under this Warranty shall be limited to repairing a defective part, or at our option, refunding the purchase price or replacing such part or parts as shall be necessary to remedy any malfunction resulting from defects in material or workmanship as covered by this Warranty. We reserve the right to improve the design of any Product without assuming any obligation to modify any Product previously manufactured.

VII. ALL INCIDENTAL AND/OR CONSEQUENTIAL DAMAGES ARE EXCLUDED FROM THIS WARRANTY. WARRANTIES OF MERCHANTABILITY AND FITNESS ARE EXCLUDED FROM THIS WARRANTY. IMPLIED WARRANTIES ARE LIMITED TO THE LIFE OF THIS WARRANTY. SOME COUNTRIES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY TO YOU.

VIII. This warranty gives you specific legal rights, and you may also have other legal rights which vary from country to country.
SERVICE CENTERS

Mercury Marine Service Centers

UNITED STATES

Mercury Marine
6250 W. Pioneer Road
P.O. Box 1939
Fond du Lac, WI 54936-1939
Telephone (414) 929-5040

CANADA

Mercury Marine
1156 Dundas Highway East
Mississauga, Ontario
L4Y 2C2 Canada
Telephone (416) 270-4481

Mercury Marine
8130 Winston Street
Burnaby, B.C.
V5A 2H5 Canada
Telephone (604) 420-5630

Mercury Marine Ltd.
2840 Le Corbusier Blvd.
Ville de Laval, Quebec
H7L 3S1 Canada
Telephone (514) 688-8210

EUROPE, MIDDLE EAST, AFRICA

Marine Power • Europe, Inc.
Parc Industriel de Petit-Rechain
B-4822 Verviers
Belgium
Telephone (32) (87) 31 • 33 • 91

AUSTRALIA, PACIFIC

Marine Power International Pty. Ltd.
P.O. Box 80,132-140 Frankston Road
Dandenong, Victoria 3175
Australia
Telephone (61) (3) 791-5822

MEXICO, CENTRAL AMERICA, SOUTH AMERICA, CARIBBEAN

Marine Power International
9350 SW 72nd Street, Suite 100
Miami, Florida 33173
U.S.A.
Telephone (305) 662-8003

ASIA

Marine Power International, Ltd.
8 Jalan Kilang Timor
#02-03 Kewalram House
Singapore 0315
Telephone (65) 270-7680

JAPAN

Marine Power International • Japan
No. 27-2 Muramatsu Chisaki-Shinden
Shimizu City
Shizuoka Prefecture
Japan 424
Telephone (81) 543/34-2500