#### Thank You

Thank you for choosing MotorGuide® Tour Series. MotorGuide capitalized on many years of experience to provide you with a motor designed to deliver Digital Variable Speed Control and maximum time on the water.

The Tour Series was designed with quality and durability in mind. The all-metal construction provides years of reliability with un-matched control and feel. The stainless-steel cables and pulleys allow you to concentrate less on boat control and more on fishing. Couple these mechanics with MotorGuide Digital electronics, and you have one of the most popular trolling motors in the fishing world.

Through the alliance between MotorGuide and Lowrance, we have co-developed one of the quietest, most accurate transducer integrated trolling motors ever built. The 200/83 kHz transducer provides an accurate sonar plot and a responsive temperature reading. This combination is sure to improve your fishing, season after season.

Remember to keep your receipt and immediately register your trolling motor. A warranty card is enclosed or you can complete registration on the internet at www.motorguide.com.

At MotorGuide, we believe there are some things you should Never Stop doing.

**NEVER STOP LEARNING, NEVER STOP IMPROVING,** AND NEVER, EVER STOP FISHING.

#### Warranty Message

The product you purchased comes with a Limited Warranty from MotorGuide. The terms of the policy are set forth in the Warranty Information section of this manual. The policy statement contains a description of the duration of coverage, important disclaimers and limitations of damages, and other related information. Please review this important information.

The description and specifications contained herein were in effect at the time this manual was approved for printing. MotorGuide, whose policy is one of continued improvement, reserves the right to discontinue models at any time, to change specifications, designs, methods, or procedures without notice and without incurring obligation.

MotorGuide, Tulsa, Oklahoma U.S.A.

Litho in U.S.A.

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# Section 1 - Warranty Information

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## MotorGuide Limited Warranty

KEEP YOUR ORIGINAL PURCHASE RECEIPT OR BILL OF SALE.

1. For recreational use customers, MotorGuide electric trolling motors are warranted to the original retail purchaser to be free from defects in material or workmanship for the periods listed in the table below:

12 V Trolling Motors — 1 year warranty 24 V Trolling Motors — 2 year warranty 36 V Trolling Motors — 3 year warranty

- 2. To obtain warranty service, the purchaser should deliver or return the unit (postage prepaid and insured) to any MotorGuide Authorized Service Dealer. DO NOT RETURN TO PLACE OF PURCHASE unless they are an authorized service center. Products returned by mail should be carefully packaged and include a note describing the nature of the problem and/or service requested, customer address and phone number. A copy of the receipt, Bill of Sale, registration verification or other proof of purchase is required with the return of the product for warranty consideration. Warranty claims will not be accepted without presentation of purchase receipt for trolling motor, other verification of registration, or Bill of Sale for boat package.
- 3. MotorGuide, at its discretion, will repair or replace items covered under the terms of this warranty. Neither MotorGuide nor MotorGuide Service Dealers are responsible for damages to MotorGuide products due to repairs performed by anyone other than an Authorized MotorGuide Service Dealer. Neither MotorGuide nor Mercury Marine is responsible for failure or damage caused by improper installation, set-up, preparation, or previous service or repair errors.
- 4. For commercial use and government use customers, MotorGuide electric trolling motors are warranted to the original retail purchaser to be free from defects in material or workmanship for one (1) year. Commercial use is defined as any work or employment-related use of the product, or any use of the product which generates income, for any part of the warranty period, even if the product is only occasionally used for such purpose such as Rental Fleets, Guides, Fish Camps or similar operations. Warranty is not transferable to any subsequent purchaser. The Mercury Product Protection plan is not available to commercial use or government use customers.
- 5. MotorGuide Composite Shaft Limited Lifetime Warranty. MotorGuide composite shafts are warranted to the original retail purchaser to be free of defects in material or workmanship for the lifetime of the original purchaser. MotorGuide will provide a new composite shaft at no cost for any composite shaft which contains a defect in material or workmanship. The installation costs are the sole responsibility of the purchaser.
- 6. Warranty coverage is available to customers that purchase from an authorized Dealer or Retailer that is authorized by MotorGuide Marine to distribute the product in the country in which the sale occurred. Warranty coverage and duration varies by the country in which the owner resides. This warranty applies to MotorGuide Trolling Motors sold and used in the United States. This Limited Warranty begins on the date the product is first sold to a purchaser or the date on which the product is first put into service, whichever occurs first. MotorGuide Accessories are covered by this Limited Warranty for a coverage period of one (1) year from the date of retail sale. The repair or replacement of parts, or the performance of service under this warranty, does not extend the life of this warranty beyond its original expiration date. Promotional warranties are not included in this statement and coverage may vary by promotion. Product either sold or put into service more than six years from date of manufacture is excluded from warranty coverage.
- 7. This warranty does not apply to normal worn parts, for example, worn cables, adjustments, or product damage due to; 1) neglect, lack of maintenance, accident, abnormal operation or improper installation or service; 2) abuse, such as, bent metal columns, bent armature shafts, broken control cables, etc., accidents, modifications, misuse, excessive wear or damage caused by an owner's failure to provide reasonable and necessary installation or care; 3) use of an accessory or part not manufactured by MotorGuide or Mercury; 4) alteration or removal of parts; 5) opening the lower unit (motor) by anyone other than an authorized MotorGuide Service Center will void this warranty.
- 8. We reserve the right to improve the design of any Trolling Motor without assuming any obligation to modify any Trolling Motor previously manufactured.
- 9. All Serialized "Service-Repair" trolling motors receive a (1) one year warranty. Non-serialized "Service-Repair" electric trolling motors are NOT warranted. "Service-Repair" motor denotes a trolling motor sold by MotorGuide that may be used but has been inspected and may have had minor repairs. Original retail purchaser of a "Service-Repair" motor is the first purchaser of the motor after it is denoted as "Service-Repair". "Service Repair" motors have a blue sticker on the battery cable and box denoting "Manufacturer Certified Service Repair Motor".
- 10. This warranty will not apply to 1) haul out, launch, towing and storage, transportation charges and/or travel time, telephone or rental charges of any type, inconvenience, or loss of time or income, or other consequential damages; or 2) removal or replacement of boat partitions or material because of boat design for necessary access to the Product; or 3) disconnection and reconnection of hard-wired trolling motors.
- 11. TERMINATION OF COVERAGE: Warranty coverage may be terminated for repossessed product, or product purchased at auction, from a salvage yard, from a liquidator, from an insurance company, from unauthorized marine dealers or boat builders, or other third party entities.

12.	ALL INCIDENTAL OR CONSEQUENTIAL DAMAGE MERCHANTABILITY AND FITNESS ARE EXCLUDE TO THE LIFE OF THIS WARRANTY. SOME STATE WARRANTY LASTS OR THE EXCLUSION OR LIMITABOVE LIMITATIONS OR EXCLUSIONS MAY NOT RIGHTS, AND YOU MAY ALSO HAVE OTHER LEG	ED FROM THIS WA ES DO NOT ALLOW TATION OF INCIDE FAPPLY TO YOU. 1	ARRANTY, IMPLIE / LIMITATIONS ON ENTAL OR CONSE THIS WARRANTY	D WARRANTIES A I HOW LONG AN QUENTIAL DAMA GIVES YOU SPEC	ARE LIMITED IMPLIED GES, SO THE CIFIC LEGAL
For	Your Records:  Model Number  Serial Number				

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# Section 2 - General Information and Component Identification

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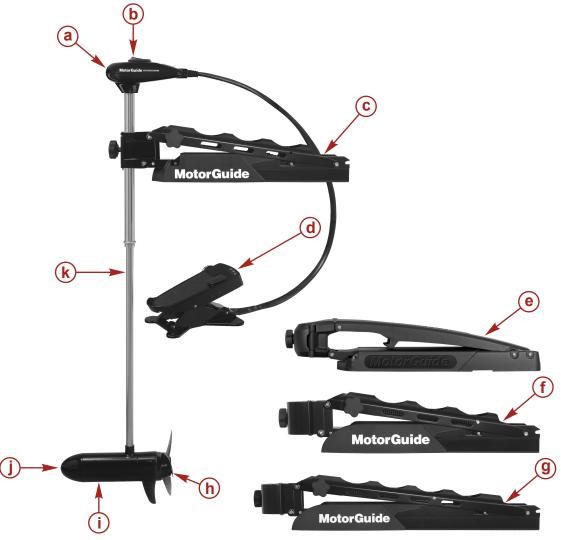
## **Component Identification**

#### **Tour Lowrance Sonar Series**



- a Top housing
- **b** Directional indicator
- c Tour Gator 21 Spring mount
- **d** Foot-pedal
- e Lowrance 7-pin connector cable
- f Gator Flex 360
- g Tour Gator 24 Spring mount
- **h** Propeller
- i Tour sonar lower unit
- j Nose cone
- k Stainless-steel column

#### **Tour Series**

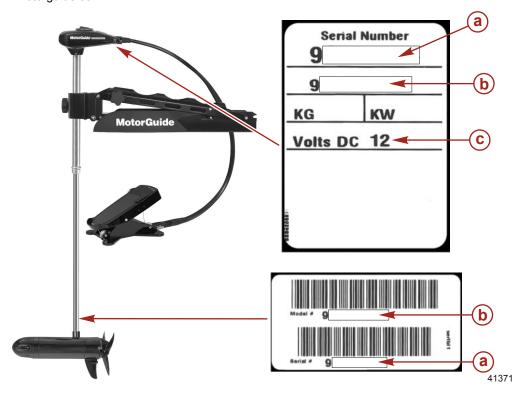


41568

- a Top housing
- **b** Directional indicator
- c Gator 20.8 Breakaway mount
- d Foot-pedal
- e Gator Flex 360
- f Tour Gator 21 Spring mount
- g Tour Gator 24 Spring mount
- h Propeller
- i Lower unit
- j Nose cone
- k Stainless-steel column

## **Recording Serial Number**

Record the serial number for future reference. For warranty purposes, complete the enclosed warranty card or register your trolling motor at www.motorguide.com.



- a Serial number
- **b** Model identification number
- c Voltage

## **Boater's Responsibilities**

The operator (driver) is responsible for the correct and safe operation of the boat and safety of its occupants and general public. It is strongly recommended that each operator (driver) read and understand this entire manual before operating the trolling motor. Be sure at least one additional person on board is instructed in the basic operation of the trolling motor in case the driver is unable to operate the boat.

## Safe Boating Suggestions

In order to safely enjoy the waterways, familiarize yourself with local and other governmental boating regulations and restrictions, and consider the following suggestions.

**Use flotation devices.** It is the law to have an approved personal flotation device of suitable size for each person aboard and have it readily accessible.

**Do not overload your boat.** Most boats are rated and certified for maximum load (weight) capacities, refer to your boat capacity plate. If in doubt, contact your dealer or the boat's manufacturer.

Perform safety checks and required maintenance. Follow a regular schedule and ensure all repairs are made properly.

Never be under the influence of alcohol or drugs while boating (it is the law). Alcohol or drug use impairs your judgment and greatly reduces your ability to react quickly.

Passenger boarding. Stop the trolling motor whenever passengers are boarding or unloading.

**Be alert.** The operator of the boat is responsible by law to maintain a proper lookout by sight and hearing. The operator must have an unobstructed view particularly to the front. No passengers, load, or fishing seats should block the operators view when operating the boat.

Underwater hazards. Reduce speed and proceed with caution whenever navigating in shallow water.

Tripping hazards. To avoid a trip hazard, route all cables and wiring neatly and out of the way.

Report accidents. Boat operators are required by law to file a Boating Accident Report with their state boating law enforcement agency when their boat is involved in certain boating accidents. A boating accident must be reported if 1) there is loss of life or probable loss of life, 2) there is personal injury requiring medical treatment beyond first aid, 3) there is damage to boats or other property where the damage value exceeds \$500.00 or 4) there is complete loss of the boat. Seek further assistance from local law enforcement.

Notes:

## 3

# Section 3 - Product Installation, Wiring, and Battery Information

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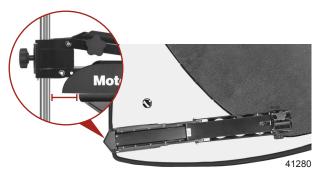
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## **Tour Gator 21 Spring Mount Installation**

**NOTE:** This bow mount installation procedure applies to the Gator 20.8 Breakaway mount (pictured), the Tour Gator 21 Spring mount and the Tour Gator 24 Spring XL mount.

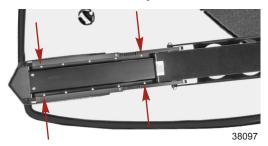
IMPORTANT: Choose an area on the deck that provides 7.6 cm (3 in.) clearance from the bow of the boat for all motor positions, including deployed and stowed positions.

1. Select an appropriate area on the deck of the boat to install the mount. Ensure that the forward mounting screws will not penetrate the hull.



Mount on deck with a 3 in. clearance

Place the bow mount base on the surface of the boat deck. Use the mount base as a template to mark the locations of the front mounting holes in the plastic decket and the rear mounting holes on the mount base.



#### Mount base mounting holes

- 3. Drill the mounting holes with a 7 mm (1/4 in.) diameter drill bit. Remove any debris.
- 4. Re-drill each mounting hole with a 13 mm (1/2 in.) diameter drill bit.
  - IMPORTANT: Using a larger drill bit, countersink the holes on fiberglass boats to prevent cracking.
- Insert the rubber mounting isolators into the drilled holes. Position the isolators in-line with the mount base with the wider side toward the outside of the mount bracket.

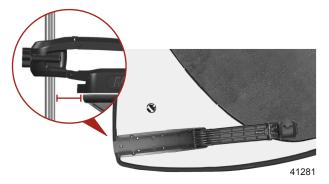


- 6. Place the mount bracket on the isolators and align the holes. Install the two longer screws into the front mounting holes and the two shorter screws into the rear mounting holes. Tighten all of the mounting screws securely with a Phillips screwdriver. Do not tighten the mounting screws with an electric driver.
  - IMPORTANT: The bracket must lay flush against the isolators before being bolted to the deck or the mount will bind, making it difficult or impossible to unlatch.
- 7. Once installed, the bracket should fasten securely and evenly-with the latch pins in the latch-and release with a light, quick snap of the rope handle.

#### Gator Flex 360

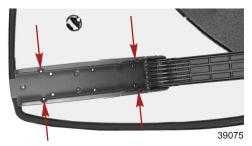
IMPORTANT: Choose an area on the deck with a 7.6 cm (3 in.) clearance from the bow of the boat for all motor positions, including deployed and stowed positions.

1. Select an appropriate area on the deck of the boat to install the mount. Ensure that the forward mounting screws will not penetrate the hull.



Mount on deck with a 3 in. clearance

2. Place the bow mount base on the surface of the boat deck. Use the mount base as a template to mark the locations of the front mounting holes in the plastic decket and the rear mounting holes on the mount base.



Mount base mounting holes

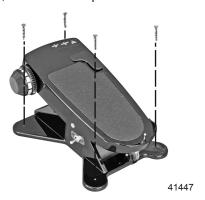
- 3. Drill the mounting holes with a 7 mm (1/4 in.) diameter drill bit. Remove any debris.
  - IMPORTANT: Using a larger drill bit, countersink the holes on fiberglass boats to prevent cracking.
- 4. Insert the rubber washers between the base of the mount and the boat mounting surface. Install the steel washers and nylon locking nuts onto the mounting screws underneath the boat deck. Tighten securely with a Phillips screwdriver and 11 mm wrench.
  - IMPORTANT: If necessary, shim the rubber washers with 25 mm (1 in.) stainless-steel washers to create a level mounting surface.
- 5. Once installed, the bracket should fasten securely and evenly-with the latch pins in the latch-and release with a light, easy pull on the rope handle.
- 6. Using a Phillips screwdriver and the decket screws, secure the decket to the mount base.

#### Foot-Pedal Permanent Installation

NOTE: It is not necessary to permanently mount the foot-pedal to operate the trolling motor.

- 1. Select an appropriate area on the deck of the boat to install the foot-pedal.
- 2. Place the foot-pedal on the surface of the boat deck. Use the foot-pedal mount holes as a template to mark the locations of the mounting holes on the boat deck.
- 3. Drill the mounting holes using a 3 mm (7/64 in.) diameter drill bit. Remove any debris.

4. Using four 8 x 2 in. stainless-steel screws, secure the foot-pedal base to the boat deck.



Foot-pedal mounting holes and screws

#### Standard Practices and Procedures

- Do not use the main engine battery to power the trolling motor.
- Disconnect the trolling motor from the battery when charging and after each use.
- Route the trolling motor wires on the opposite side of the boat from other miscellaneous boat wiring.
- · Connect boat accessories directly to the main engine battery.

#### **Battery Recommendations**

- Use a 12-volt, deep cycle marine battery. Refer to **Battery Connection**.
- Install a 50-amp manual reset circuit breaker in line with the trolling motor positive leads within 180 cm (72 in.) of the batteries.
- Use 13 mm (6-gauge) battery cables if extending the existing wire 3 m (10 ft) beyond the standard battery cable supplied with the product.

Recommended MotorGuide Accessory Description	Part Number
6-Gauge Battery Cable and Terminals With 50-Amp Manual Reset Circuit Breaker	MM309922T
50-Amp Manual Reset Circuit Breaker	MM5870

## **Battery Precautions**

#### **▲** WARNING

An operating or charging battery produces gas that can ignite and explode, spraying out sulfuric acid, which can cause severe burns. Ventilate the area around the battery and wear protective equipment when handling or servicing batteries.

When charging batteries, an explosive gas mixture forms in each cell. Part of this gas escapes through holes in the vent plugs and may form an explosive atmosphere around the battery if ventilation is poor. This explosive gas may remain in or around the battery for several hours after it has been charged. Sparks or flames can ignite this gas and cause an internal explosion, which may shatter the battery.

The following precautions should be observed to prevent an explosion:

- 1. Do not smoke near batteries being charged or which have been charged very recently.
- Do not break live circuits at terminals of batteries, because a spark usually occurs at the point where a live circuit is broken.
   Always be careful when connecting or disconnecting cable clamps on chargers. Poor connections are a common cause of electrical arcs which cause explosions.
- 3. Do not reverse polarity of battery terminal to cable connections.

## Wire and Cable Routing

- Route the trolling motor wires on the opposite side of the boat from other boat wiring.
- Accessories should be connected directly to the main engine battery.

## **Establishing A Common Ground**

Connect the trolling motor and main engine accessories to the same negative ground terminal. A common ground connection increases sonar sensitivity and improves the sonar display. Not establishing a common ground may cause severe corrosion or electrolysis.

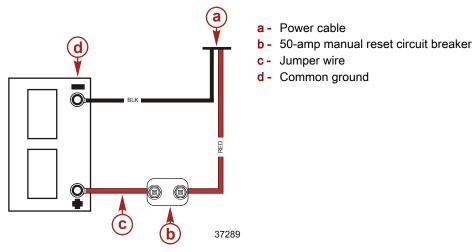
## **Battery Connection**

#### **A** CAUTION

Disconnecting or connecting the battery cables in the incorrect order can cause injury from electrical shock or can damage the electrical system. Always disconnect the negative (-) battery cable first and connect it last.

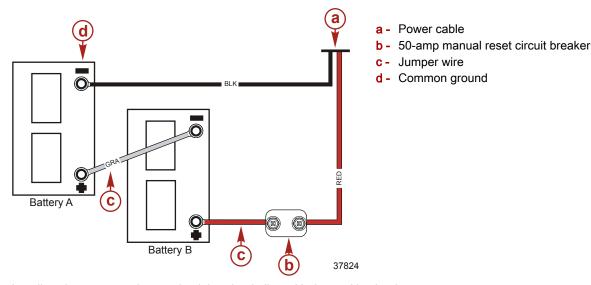
Recommended MotorGuide Accessory Description	Part Number
6-Gauge Battery Cable and Terminals With 50-Amp Manual Reset Circuit Breaker	MM309922T
50-Amp Manual Reset Circuit Breaker	MM5870

#### 12-Volt Battery Connection



- 1. Install a 50-amp manual reset circuit breaker in line with the positive lead.
- 2. Connect the red battery lead from the power cable to the positive (+) battery post.
- 3. Connect the black battery lead from the power cable to the negative (-) battery post.

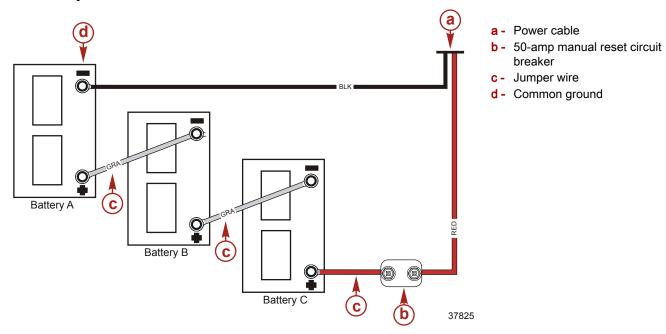
#### 24-Volt Battery Connection



- 1. Install a 50-amp manual reset circuit breaker in line with the positive lead.
- 2. Connect the red battery lead from the power cable to the positive (+) post on battery B.

- 3. Connect the black battery lead from the power cable to the negative (–) post on battery A.
- 4. Connect the jumper wire (not included) between the negative (–) post on battery B to the positive (+) post on battery A.

#### **36-Volt Battery Connection**



- 1. Install a 50-amp manual reset circuit breaker in line with the positive lead.
- 2. Connect the red battery lead from the power cable to the positive (+) post on battery C.
- 3. Connect the black battery lead from the power cable to the negative (-) post on battery A.
- 4. Connect a jumper wire (not included) between the negative (-) post on battery C to the positive (+) post on battery B.
- 5. Connect a second jumper wire (not included) between the negative (-) post on battery B to the positive (+) post on battery A.

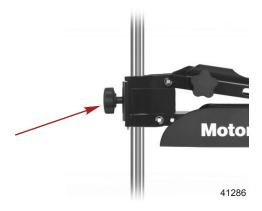
## 4

# Section 4 - Trolling Motor Operation

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#### Installing And Removing The Motor



**Bracket knob** 

- 1. To install the motor to the bow mount, turn the bracket knob counter clockwise to loosen and open the bracket door.
- 2. Place the motor column into the bracket and close the door.
- 3. Turn the bracket knob clockwise to tighten the motor column in the bracket.

#### Removing The Motor

- 1. To remove the motor from the bow mount, turn the bracket knob counter clockwise to loosen and open the bracket door.
- 2. Remove the motor column from the bracket and close the door.

## Connecting The Sonar Display To Motor

**NOTE:** This sonar display connection procedure applies to the Tour Series motors that offer built-in 200/83 kHz sonar transducers compatible with Eagle<sup>®</sup>, Garmin<sup>®</sup>, Humminbird<sup>®</sup>, Lowrance<sup>®</sup>, and Vexilar<sup>®</sup> brand sonar displays. Tour sonar models connect with Lowrance 7-pin sonar units. For compatibility with other sonar units, refer to www.motorguide.com.

Match the cable connector to the sonar port on the back of the sonar display. Power up the unit to ensure the sonar cable is connected securely.



Lowrance 7-pin sonar connector

## Stowing And Deploying The Trolling Motor

## **WARNING**

Rotating propellers can cause serious injury or death. Never start or operate the motor out of water.

#### **A** CAUTION

Moving parts, such as hinges and pivot points, can cause serious injury. Keep away from moving parts when stowing, deploying, or tilting the motor.

**NOTE:** The bow mount stowing and deploying procedures apply to the Gator 20.8 Breakaway mount (pictured), Gator Flex 360 mount, Tour Gator 21 Spring mount and Tour Gator 24 Spring mount.

#### **Stowing The Trolling Motor**

NOTE: Secure trolling motors with a Trolling Motor Tie-Down Strap (not included) on all mounts.

Recommended MotorGuide Accessory Description	Part Number	
Trolling Motor Tie-Down Strap	MGA507A1	

- 1. Firmly grasp the mount rope handle.
- 2. Snap the mount rope handle to disengage the lock pin.
- 3. Continue to pull the mount rope handle to raise the lower unit onto the mount.



Mount rope

IMPORTANT: Gently raise the trolling motor out of the water. Do not release the mount rope handle until the lock pin is engaged.

4. Once the motor is in the stow position, the lock pin engages to secure the trolling motor.



Tour stowed

## **Deploying The Trolling Motor**

- 1. Firmly grasp the mount rope handle.
- 2. Snap the mount rope handle to disengage the lock pin.
- 3. Continue to pull the mount rope handle to lower the trolling motor into the water.



Mount rope

4. Once the motor is in the deployed position, the lock pin will engage to secure the trolling motor.



Deployed position

## Adjusting The Motor Depth

#### **A** CAUTION

Avoid possible serious injury from dropping the motor when adjusting the motor depth. Firmly grasp the motor shaft with one hand when raising or lowering the motor.

Adjust the depth of the motor to improve the trolling motor performance in various water depths.

IMPORTANT: When adjusting the motor depth, ensure the lower unit is fully submerged a minimum of 15 cm (6 in.) to avoid propeller cavitation.

1. Firmly grasp the column with one hand while loosening the bracket knob so that the column moves freely.



- 2. Raise or lower to the desired depth.
- 3. Tighten the bracket knob to secure the column.
- 4. If necessary, adjust the breakaway knobs on the sides of the mount so that the motor will breakaway if it encounters underwater obstacles.



Breakaway knobs

## **Foot-Pedal Operation**

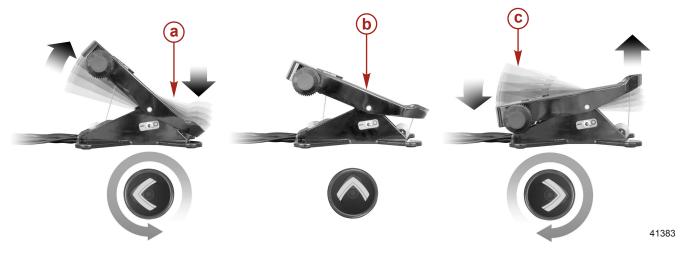
#### **A** WARNING

Rotating propellers can cause serious injury or death. Never start or operate the motor out of water.

#### **Direction Control**

Pivot the foot-pedal heel-down to steer left and toe-down to steer right. To operate the motor in reverse, continue to press all the way down on the foot-pedal in either operation. The 400° steering range allows the operator to point the motor past 360° from both the left and right side.

The directional indicator on the top of the motor corresponds to the position of the lower unit.



- a Heel-down position left turn
- **b** Center detent position straight
- c Toe-down position right turn

#### **Speed Control**

Use the three-position toggle switch to operate the motor at any given speed.

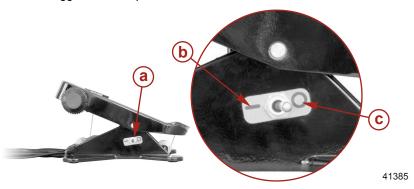
- 1. Constant On motor runs continuously on the selected speed without the use of the momentary button.
- 2. Momentary motor runs continuously on the selected speed with the momentary button depressed.
- 3. High-Bypass motor runs continuously on full speed (bypassing the speed setting) with the momentary button depressed.

Control the speed of the motor by adjusting the speed control knob on the foot-pedal. Use the momentary switch when operating the trolling motor in momentary or high-bypass operation.



- a On-off toggle switch
- Speed control knob
- c Three-position toggle switch
- d Momentary button

Use the on-off toggle switch to power the motor on and off.



- a On-off toggle switch
- **b** Off position
- c On position

## 5

## Section 5 - Maintenance and Storage

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#### Trolling Motor Care

To keep your trolling motor in the best operating condition and retain its dependability, your trolling motor must receive periodic inspections and maintenance. Keep it maintained properly to ensure the safety of you and your passengers.

#### **WARNING**

Neglecting to inspect, maintain, or repair your trolling motor can result in product damage or serious injury or death. Do not perform maintenance or service on your trolling motor if you are not familiar with the correct service and safety procedures.

Record all maintenance performed and save maintenance work orders and receipts.

#### Selecting Replacement Parts

Use only original MotorGuide replacement parts.

#### Inspection And Maintenance Schedule

#### **Before Each Use**

- Inspect for loose or corroded wiring connections.
- · Check the tightness of the battery lead connections.
- · Check the tightness of the propeller nut.
- · Check the propeller blades for damage.

#### After Each Use

- Disconnect the battery cables from the power source or unplug the motor from the boat.
- After each use, check each side of the propeller and propeller shaft for debris such as weeds and fishing line. Remove all
  debris.
- · Check the tightness of the propeller nut.
- · Rinse the trolling motor with clean water to remove dirt and dust that may scratch the surface.

#### **Every 100 Hours Of Use Or Annually**

Periodically lubricate all the pivot points with a non-aerosol, non-solvent based lubricant.

IMPORTANT: Never use an aerosol lubricant to grease or oil any part of the unit. Many aerosol lubricants contain harmful propellants that can cause damage to various parts of the trolling motor.



#### Pivot points

- a Rear deck channel grooves
- **b** Lockslide pin
- c Door knob shaft
- d Forward deck channel grooves

Tube Ref No.	Description	Where Used	Part No.
95	2-4-C with Teflon	Pivot points	92-802859A 1

- · Check the tightness of bolts, nuts, and other fasteners.
- Inspect the battery. Refer to **Battery Inspection**.

## Storage Preparation

The major consideration in preparing your trolling motor for storage is to protect it from corrosion and damage caused by freezing of trapped water.

Refer to the **Maintenance—Inspection and Maintenance Schedule** section and complete the appropriate care instructions to prepare your trolling motor for storage. Store the trolling motor in a dry location where it will not be affected by temperatures below -29 °C (-20 °F).

IMPORTANT: Trolling motors stored in temperatures below 0 °C (32 °F) should be operated slowly for a minimum of 15 minutes before going above 30% operation.

#### **Battery Inspection**

The battery should be inspected at periodic intervals to ensure proper trolling motor operation.

IMPORTANT: Read the safety and maintenance instructions which accompany your battery.

- 1. Ensure that the battery is secured to the vessel.
- 2. Ensure that the battery cable terminals are clean, tight, and correctly installed. For installation instructions, refer to **Battery Connection**.
- 3. Ensure that the battery is equipped with a battery box to prevent accidental shorting of the battery terminals.

## **Propeller Replacement**

#### **▲** WARNING

Performing service or maintenance without first disconnecting the battery can cause product damage, personal injury, or death due to fire, explosion, electrical shock, or unexpected motor starting. Always disconnect the battery cables from the battery before maintaining, servicing, installing, or removing motor components.

#### Removing the Propeller

- 1. Disconnect the battery cables from the power source.
- 2. While holding the propeller blade with one hand, use a propeller wrench or pliers to remove the propeller nut.

IMPORTANT: If the propeller cannot be removed easily, hold one blade and use a rubber mallet to lightly tap the back side of the opposite blade. If the propeller cannot be removed, refer to Troubleshooting.

NOTE: If the propeller pin is bent, replace the propeller pin.



Recommended MotorGuide Accessory Description	Part Number	
MotorGuide Prop Wrench Kit	MGA050B6	

## Installing the Propeller

1. Rotate the motor shaft to insert the propeller pin horizontally.



Propeller pin

2. Install the propeller onto the motor shaft by engaging the propeller onto the propeller pin.



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3. Install the propeller nut. Tighten securely.



4. Use a MotorGuide propeller wrench or pliers to tighten the propeller nut another 1/4 turn.

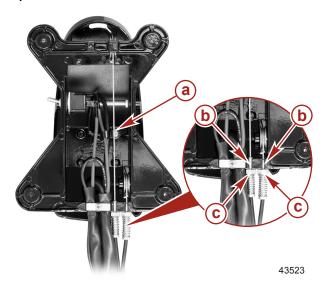
Recommended MotorGuide Accessory Description	Part Number
MotorGuide Prop Wrench Kit	MGA050B6

## Foot-Pedal Cable Tension Adjustment

The foot-pedal cable tension adjustment is correct when the exposed number of threads on the tension adjustment shafts are approximately the same and the amount of deflection of the long exposed foot-pedal cable under a 9.1 kilogram force (20 lbf) pull is approximately 19 mm (3/4 in.).

To check for proper foot-pedal cable tension, apply a 9.1 kilogram force (20 lbf) pull at the center of the long exposed foot-pedal cable. The amount of deflection of the cable should be approximately 19 mm (3/4 in.). If the deflection is not correct, use a 13 mm (1/2 in.) wrench to adjust the cable tension nuts to obtain the proper deflection.

IMPORTANT: Equal adjustments should be made to each cable tension nut to maintain an equal right and left steering radius with the foot-pedal.



- a Long cable tension pull point
- **b** Exposed threads of tension adjustment shafts
- c Cable tension adjustment nuts

Description	kilogram force	lbf
Long exposed foot-pedal cable tension	9.1	20

## 6

## Section 6 - Owner Service Assistance

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Service Assistance	

## **Troubleshooting**

**NOTE:** For service information, contact any certified MotorGuide Service Center. For a full listing of MotorGuide service centers, go to www.motorguide.com or contact any Mercury Service office. Refer to **Owner Service Assistance**.

Symptom	Possible Cause	Resolution
	Weak battery	
	Loose or corroded battery connections	Refer to Wiring and Battery Information.
Loss of power	Propeller is loose, damaged or off-balance	Refer to <b>Maintenance</b> .
Loss of power	Wiring or electrical connection faulty	Wire gauge from the battery to the trolling motor is insufficient. Six-gauge wire is recommended.
	Magnets cracked or chipped	The motor will whine or grind. Contact <b>Service Center</b> .
	Water intrusion in the lower unit	Contact Service Center.
	Motor shaft is bent.	Contact Service Center.
	Propeller is loose, damaged or off-balance	Refer to <b>Maintenance</b> .
Excessive noise, vibration	Damaged bearings or bushings	Contact Service Center.
	Magnets interfering with armature	Turn off the power and manually rotate the propeller. If the propeller does not rotate freely with a slight magnetic drag, contact <b>Service Center</b> .
	Magnets cracked or chipped	The motor will whine or grind. Contact Service Center.
	Electrical	Connections in the top housing may be loose or damaged. Contact <b>Service Center</b> .
Motor failure	Thermal protection	Temperature exceeds specification. Contact Service Center.
(motor runs at partial speed)	Damaged speed potentiometer	Contact Service Center.
	Propeller is loose, damaged or off-balance	Refer to <b>Maintenance</b> .
	Weak battery	
	Loose or corroded battery connections	Refer to Wiring and Battery Information.
	Wiring or electrical connection faulty	Wire gauge from the battery to the trolling motor is insufficient. Six-gauge wire is recommended.
	Electrical	Check the connector for a loose or damaged connection. Refer to <b>Wiring and Battery Information</b> .
Motor failure	Thermal protection	Temperature exceeds specification. Contact <b>Service Center</b> .
(motor does not run)	Three-position switch is damaged	Contact Service Center.
	Fuse on circuit breaker is open	Replace the fuse or reset the circuit breaker only after determining the root cause of the problem.
	Magnets interfering with armature	Turn off the power and manually rotate the propeller. If the propeller does not rotate freely with a slight magnetic drag, contact <b>Service Center</b> .
	Boat wiring	Contact Service Center.
The motor does not operate in the same direction as the directional indicator	Directional indicator misaligned	Contact Service Center.

Symptom	Possible Cause	Resolution
Inaccurate temperature	Lower unit not fully submerged	Adjust the depth of the motor. Ensure the lower unit is fully submerged. Refer to <b>Adjusting The Motor Depth</b> .
reading	Damaged nose cone	Contact Service Center.
	Damaged sonar cable	Contact Service Center.
Mount is hard to unlatch using the pull rope	Mount bracket is not level or twisted	Loosen or twist the two forward bracket screws slightly and latch the bracket. Continue to loosen each of the bracket screws until the bracket releases easily. If necessary, install shim washers (not included) and then tighten the screws. Refer to <b>Product Installation</b> for help.
	Difficulty removing Bent propeller pin Bent armature shaft	Hold one blade and lightly tap the opposite blade with a rubber mallet.
Difficulty removing propeller		Use a putty knife on both sides of the propeller to apply equal pressure.
		Contact Service Center.

#### Service Assistance

Your satisfaction with your product is very important to us. If you have a problem or question about your motor, contact your dealer or any certified MotorGuide Service Center. For more service assistance information, refer to **Warranty Information**.

The following information will be needed by the service office:

- · Your name and address
- · Daytime telephone number
- · Model and serial number of your trolling motor
- · Proof of purchase or registration verification
- · Nature of problem

## **Mercury Marine Service Offices**

For assistance, call, fax, or write. Please include your daytime telephone number with mail and fax correspondence.

United States, Canada			
Telephone	English - (920) 929-5040 Français - (905) 636-4751	Mercury Marine W6250 W. Pioneer Road	
Fax	English - (920) 929-5893 Français - (905) 636-1704	P.O. Box 1939 Fond du Lac, WI 54936-1939	
Website	www.mercurymarine.com		

Australia, Pacific		
Telephone	(61) (3) 9791-5822	Brunswick Asia Pacific Group
Fax	(61) (3) 9706-7228	132-140 Frankston Road Dandenong, Victoria 3164 Australia

Europe, Middle East, Africa		
Telephone	(32) (87) 32 • 32 • 11	Brunswick Marine Europe
Fax	(32) (87) 31 • 19 • 65	Parc Industriel de Petit-Rechain B-4800 Verviers, Belgium

Mexico, Central America, South America, Caribbean		
Telephone	(954) 744-3500	Mercury Marine
Fax	(954) 744-3535	11650 Interchange Circle North Miramar, FL 33025 U.S.A.

#### Section 6 - Owner Service Assistance

Japan		
Telephone	072-233-8888	Kisaka Co., Ltd.
Fax	072-233-8833	4-130 Kannabecho Sakai-shi Sakai-ku 5900984 Osaka, Japan

Asia, Singapore		
Telephone	5466160	Mercury Marine Singapore
Fax	5467789	72 Loyang Way Singapore, 508762

## 7

# Section 7 - Accessories and Adapters

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## **Trolling Motor Accessories**

MotorGuide accessories available wherever trolling motors are sold.

Safari™ Weedless 2-Blade P	Safari™ Weedless 2-Blade Prop		
41271	Hub size: 8.9 cm (3.5 in.) Application: weedless and power Includes 2-blade propeller, prop nut and large prop pin	8M0028330	
2-Blade Power Prop Kit			
39081	Hub size: 8.9 cm (3.5 in.) Application: power and efficiency Includes 2-blade propeller, prop nut and large prop pin	MGA0495B	
3-Blade Machete III Black			
39082	Hub size: 8.9 cm (3.5 in.) Application: speed and efficiency Includes 3-blade propeller, prop nut and large prop pin	MGA089B	
3-Blade Machete III Grey Gla	ss-Filled		
41557	Hub size: 8.9 cm (3.5 in.) Application: shallow and durability Includes 3-blade propeller, prop nut and large prop pin	MGA089G	
3-Blade Aluminum Machete			
39157	Hub size: 8.9 cm (3.5 in.) Application: shallow and durability Includes 3-blade propeller, prop nut and large prop pin 36-volt motors only	MGA087M	
MotorGuide Prop Wrench Kit			
37853	Comes complete with spare prop nut and two prop pins, allowing fast prop changes.	MGA050B6	
Replacement Handle			
39084	With soft grip handle and Tour rope for unsurpassed durability.	8M4000275	

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Mounting Isolators			
39086	Absorbs shock and protects electronics. Ideal for mounting all marine accessories without having to go under the deck. Four per package.	MGA015PB6	
Trolling Motor Mounting Kit			
39087	Absorbs shock and protects electronics. Steel bolts and washers fit all trolling motors. Four per package.	8M4000873	
6 Gauge Battery Cable and Te	erminals with 50-Amp Manual Reset Breaker		
38006	Protect your investment with this 50-amp manual reset breaker and heavy-duty 6-gauge battery cable and terminal.	MM309922T	
50-Amp Manual Reset Breaker			
38007	Protect your motor and boat wiring.	MM5870	
Trolling Motor Tie-Down Strap			
MotorGuide 41288	Designed to fit all Gator mounts for big-water applications.	MGA507A1	

## Tour Series Lowrance® Sonar Adapters

The Tour Series Lowrance sonar adapters will connect the standard 7-pin Lowrance connector coming out of the Tour foot-pedal to select sonar fish finders to optimize sonar performace. No adapter is needed for Lowrance 7-pin sonar units. For a complete compatibility listing, go to www.motorguide.com.

Lowrance 6-Pin Sonar Adapter		
41390	Works with Tour Series 200/83 kHz Lowrance motors	8M4001959

#### Section 7 - Accessories and Adapters

Vexilar® 3-Pin Sonar Adapter			
41391	Works with Tour Series 200/83 kHz Lowrance motors	8M4001960	
Garmin <sup>®</sup> 6-Pin Sonar Adapter			
41392	Works with Tour Series 200/83 kHz Lowrance motors	8M4001961	
Humminbird® 7-Pin Sonar Adapter			
41393	Works with Tour Series 200/83 kHz Lowrance motors	8M4001962	