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<th>SWNG 44/48 (SHADOW MK II)</th>
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<tr>
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<tr>
<td>CIRCUIT BREAKER</td>
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<tr>
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<table>
<thead>
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<td>REQUIRED BATTERY</td>
<td>12v DEEP CYCLE MARINE</td>
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<tr>
<td>MIN. RECOMMENDED BATTERY SIZE</td>
<td>80 - 100 AMP HOUR **</td>
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## SHADOW MK II

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SWNG 65/54 (SHADOW MK II)</th>
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<tbody>
<tr>
<td>VOLTAGE (V)</td>
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<tr>
<td>MAX. THRUST (LB)</td>
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<td>CIRCUIT BREAKER</td>
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<table>
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<tr>
<th>MODEL</th>
<th>NGRC 54/54 (SHADOW MK II)</th>
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<td>REMOTE HAND CONTROL</td>
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</tr>
<tr>
<td>MIN. RECOMMENDED BATTERY SIZE</td>
<td>80 - 100 AMP HOUR **</td>
</tr>
</tbody>
</table>

**NOTE -** this is to be used as a guide only. Check with your battery supplier to confirm required size of 12 volt deep cycle marine battery that will be appropriate for your situation.
PRE INSTALLATION CHECKLIST

• Familiarise yourself with the user manual and the various parts of your Watersnake motor

• Select desired mounting location on boat

• 12v deep cycle marine battery (your Watersnake motor is not designed for use with car / truck / motorcycle type batteries) – for more information about appropriate batteries for your Watersnake motor, refer to page 10

• Check battery cable length in relation to location of your 12v deep cycle marine battery. If extension to battery cable is required, refer to table on page 10
  NOTE – if extending battery cable ensure that the circuit breaker remains in place on the positive wire

PRE-USE CHECKLIST – CHECK BEFORE EACH USE

• Ensure that your Watersnake motor is securely attached to your boat (refer to page 6 of manual)

• Fully charged 12v deep cycle marine battery (your Watersnake motor is not designed to be used with a car / truck / motorcycle type battery)

• Check battery cable for any signs of damage or exposed wiring

• Check terminals for any signs of corrosion or debris

• Check fuse assembly / circuit breaker – clean if any signs of corrosion or debris. Replace fuse if necessary.
**IMPORTANT** PLEASE READ BEFORE USE.

**HOW TO STOW AND DEPLOY YOUR WATERSNAKE BOW MOUNT ELECTRIC MOTOR.**

**DEPLOYING YOUR MOTOR**
To deploy the motor press down on the pedal *(A)* and simultaneously slide the shaft *(B)* through the gear box and lower carefully into the water.

**STOWING YOUR MOTOR**
To stow the motor press down on the pedal *(A)* and simultaneously slide the shaft *(B)* through the gear box until the lower motor unit sits back in the locking clamps. There should be a click sound locking the unit in position. In addition, then slide the Depth Collar *(C)* down the shaft to the Gear Box and then tighten the bolt on the Depth Collar so it is secure.

Ensure your motor is Properly stowed and secured before Driving and or moving your boat to avoid damage.

**PLEASE NOTE:**
Watersnake Distribution Pty Ltd accepts no liability for injury or damage caused by the incorrect deployment or stowing of this motor.
Congratulations and welcome to a world of silent motoring.

Powerful yet silent, the Watersnake electric motors are built to suit all angling conditions. High quality materials, superior design and precision engineering make these motors longwearing and reliable.

Please read manual completely before starting installation.

**ATTACHING THE MOTOR TO YOUR BOAT**

Attach the motor to the bow of the boat, taking care to ensure the motor is on the centreline of the boat and forward enough to avoid the shaft making contact with the boats gunwale rubber. With the motor in position, mark the holes for drilling, ensuring as you do that the bow area below the mounting location is clear and accessible.

Mount the plate to the bow using stainless steel bolts, nuts and washers. It is important when doing this work that the boat is level and the motor is mounted level.

Remove covers to expose Mounting Plate. After the Motor is Mounted replace covers.

**PLEASE NOTE:**

Watersnake Distribution Pty Ltd accepts no liability for personal injury or property damage caused while drilling/mounting this motor. Please wear appropriate protective clothing and eyewear/face shield.

If you do not want your motor attached to the bow of your boat at all times it is recommended that you purchase a Jarvis Marine quick release bracket.

**OPTIONAL QUICK RELEASE BRACKET (Sold Separately)**

You can also mount your motor using a Jarvis Marine Quick release bracket, which allows you to easily attach or remove the motor to your boat, for transport and storage. Full mounting instructions are included with the brackets.
SHADOW MK II

- Foot control unit with 5 meter cable
- Quick lock and release lever
- Weedless propeller
- Mounting bracket
- Composite shaft
- Motor Assembly unit
- Depth collar height adjustment
- Head unit with integrated digital voltage meter
- Remote Control Fob (Only available with remote model)

www.watersnake.com.au
ATTACHING THE PROPELLER
Before doing anything with the propeller, ensure the cables to the battery are disconnected.

1: Place shear pin in shaft as shown.

2: Align the propeller against the shear pin on the shaft (there is a groove on the back of the propeller which the shear pin needs to slot into) and then tighten the propeller nut securely.
ELECTRICAL CONNECTIONS

Before connecting the motor’s cables to the battery terminals, ensure all switches are in the OFF position and stand clear of the propeller.

Connect the red cable to the positive (+) terminal and the black cable to the negative (-) terminal, making sure the terminals are clean before doing so. A clean connection will minimise power wastage and give you maximum power from the battery.

Please Note: for best performance please keep battery terminals and connections clean.

There are a number of different methods of connecting battery leads to your 12 v deep cycle battery. Your Watersnake motor is supplied as standard with ring type terminal connectors although this can be changed to suit your particular set up. If fitting different terminal connectors ensure that connections are soldered and sealed appropriately. It is recommended to use heat shrink to seal any exposed joins in wiring or connectors. Any non-standard terminal connections must be capable of handling a minimum of 50 amps. Anderson plugs are a popular choice amongst many Watersnake motor owners and are readily available.

A Watersnake circuit breaker is supplied and attached to the red power cable to protect the circuit boards of the motor. This is a connection that joins the motor battery cable to the battery and shuts the motor off if the connection over heats. As shown on diagram (1)

We recommend using a deep cycle marine battery for optimum performance.
DEPLOYMENT
Pressing on the quick locking and release lever (refer to diagram on page 4) at the same time as pushing the shaft forward will allow the motor to release from the cradle. NOTE – Your Watersnake motor is not designed to release from the cradle by pressing on the lever alone. Applying excessive pressure to the release lever can lead to deployment difficulties.

DEPTH ADJUSTMENT
Hold the motor shaft with one hand, loosen the depth collar adjustment screw and set the motor to the desired depth. Then retighten the adjusting screw on the depth collar securely.

DEEP CYCLE BATTERIES
A 12 v deep cycle marine battery is required for normal operation and continued use of your Watersnake motor. 12 v deep cycle marine batteries are constructed using thicker plates and a denser active material. They are built to withstand repeated charge and recharge cycles. Deep cycle marine batteries are specifically designed to deliver sustained power with low current draw over extended periods of time. Car / Truck / Motorcycle batteries are not designed in the same way and are more useful for providing high bursts of power for short periods. Use of car / truck / motorcycle batteries can cause damage to electronic components within your Watersnake motor.

WIRE EXTENSION LENGTH | SUGGESTED WIRE GAUGE
---|---
1m | 6 AWG / 6GA
3m | 4 AWG / 4GA
5m | 2 AWG / 2GA

Note that above table is intended as a guide only. Your local electrical supplier will be able to advise in greater detail based on your particular set up and requirements.
STOWING
When your Watersnake motor is not in use always stow and store it properly.
Press the quick locking and release lever and raise the motor, pulling towards the stern of your boat until it is secure on the locking cradles and locked into the horizontal (stowed) position. A final pull on the shaft of the motor may be necessary to ensure it has locked into place on the cradle.
(refer to diagram on page 4)

ENSURE YOUR MOTOR IS PROPERLY STOWED AND SECURED BEFORE DRIVING AND OR MOVING YOUR BOAT TO AVOID DAMAGE.

PLEASE NOTE:
Watersnake Distribution Pty Ltd accepts no liability for injury or damage caused by the incorrect deployment or stowing of this motor.

REMOTE CONTROL FOB
(1) Steer Left
(2) Steer Right
(3) Momentary button
(4) On / Off button
(5) + and - Increase / Decrease speed
(6) This button has no function

PLEASE NOTE:
This remote control fob is only compatible with Watersnake MK II NGRC 54/54 model. This unit will not work with other Watersnake Shadow MKII Motors.
SYNCING THE REMOTE CONTROL TO THE MOTOR
Please make sure before syncing the motor is connected to power.

1. Unscrew the two screws and remove the side plate of bow mount bracket.
   (Opposite side to the wire assembly)

2. Locate the remote control receiver board.

3. Press any button on the remote control at the same time you press the button on the remote control receiver board. Hold until you see the LED flash.

4. Check to see if remote is now working.
   If not repeat step 3 again.

5. Put side plate back on bow mount bracket and secure with the two screws.
FOOT PEDAL CONTROL SYSTEM
The low profile foot pedal control is used to adjust direction and speed. A variable speed dial control is located at the right side of the foot control box.

(1) Steering is enabled via the buttons marked left and right.
- Pushing down on the button marked “L” at the top left hand corner of the pedal with your foot will turn the motor to the left

(2) To steer to the right push your foot down on the button marked “R” at the top right hand corner of the pedal.

(3) Use your heel at the bottom of the pedal to pause or resume thrust power

(4) A constant on/off switch is set at the left hand side of the foot pedal control box.
- To set the power of the motor to off the constant on/off switch should be in the backwards position with the tail end pointing down towards you.
- To set the power of the motor to on, the constant on/off switch should be moved to the forward position with the tail end pointing up.

(5) Variable speed control dial.
MAINTENANCE

Your Watersnake Electric Motor should provide many seasons of dependable service. However, like any tool, electric motors must be cared for.

After each day of fishing, the motor should be cleaned thoroughly. A light rinse with fresh water (do not direct a high pressure stream of water at the motor) and wash with warm soapy water to remove any remaining salt / debris particles should be completed. It is good practice to pay particular attention to areas that are likely to hold salt / debris particles such as the shaft of the motor and the area surrounding the turning motor housing where the depth collar sits when the motor is deployed.

NOTE – The above cleaning routine should also be followed even if the motor has been used in fresh water. Dust / dirt can still build up in fresh water environments.

Dry excess moisture from the motor and sparingly lubricate all friction points – a pressurized spray lubricant is ideal. It is important to keep the shaft of your motor as smooth as possible to avoid deployment issues. A light coat of wax or a coating with a spray lubricant should be applied to the shaft a couple of times a year.

Periodical general maintenance (once or twice a year depending on use)
• Remove side covers from the mounting assembly and clean any build up of dirt / debris that may be present on the inside of the bow mount assembly (mounting bracket). Applying harsh chemical cleaners is not recommended – warm soapy water should be sufficient.
• While side covers from the mounting assembly are removed apply marine grade grease to the quick lock and release mechanism. Do not use grease that may contain lead particles.
• Check for any loose screws / bolts / fittings and tighten as required.
• Check wiring / terminals for any sign of corrosion or build up of debris
• Check fuse or circuit breaker for any sign of corrosion or build up of debris
RECOMMENDATIONS WHEN USING YOUR WATERSNAKE MOTOR IN THE WATER

Upon connecting your battery to your motor, and before setting off in your boat, make sure that your trolling motor is mounted correctly and stowed securely in the mounting bracket. Of course once you engage your Watersnake motor for use make sure that it is in the right place, not too low or too high. Once you are in deep water, you should make sure that you gradually increase the speed of your trolling motor, do not flatten it up to full speed right away. For example, if you have a 5 speed trolling motor, don’t click through all of the other speeds really fast to get to 5, slowly go up to 1 speed, 2 speed, and so on. It is recommended not to run your trolling motor out of water for long periods of time.

RECOMMENDATIONS WHEN YOUR WATERSNAKE MOTOR IS OUT OF THE WATER

After washing down your Watersnake motor at the end of a session, you may need to charge your 12v deep cycle marine battery. Before charging your battery, ensure that your Watersnake motor is disconnected from the battery. DO NOT leave your motor connected whilst charging your battery.

If your boat is not stored under cover, it is recommended to remove your Watersnake motor and store separately under cover, out of direct sunlight and away from wet or damp areas. If you are not able to remove your Watersnake from the boat, we recommend covering your Watersnake with a weatherproof cover to protect the electronics.

The off-season provides a good opportunity to complete some maintenance as outlined on page 14. When towing your boat long distances and especially if driving over rough/unsealed roads, we strongly recommend that you remove your Watersnake motor from your bow and stow safely in either your vehicle or boat.
SHORT-TERM STORAGE OF YOUR WATERSNAKE MOTOR
If you are going to be gone for a short break or there is rain forecast and the motor is to remain on the boat, we recommend covering the motor to protect the electronics. Even better, make sure that you have a safe non-damp area that your trolling motor can stay in room temperature.

LONG-TERM STORAGE OF YOUR WATERSNAKE MOTOR
If you are not going to use your motor in the off-season, put your motor in a safe place where no water or extreme cold or hot temperatures can get in. We suggest making a place under-cover away from moisture, this should protect the electronics such as the circuit board and speed control unit.

SERVICING YOUR WATERSNAKE ELECTRIC MOTOR
A current list of authorised service agents can be found at Jarvis Walker’s Anglers Central Service Centre website – www.anglerscentral.com.au

Schematics and parts lists are also available from the Anglers Central Service Centre website

TROUBLESHOOTING QUICK REFERENCE GUIDE
A significant number of issues can be caused by a disruption of power supplied to your Watersnake motor. Careful inspection of your 12v deep cycle battery, wiring and fuse / circuit breaker set up should be completed before assuming that there is a fault with your motor.

No power / Reduced power
NOTE – your Watersnake motor is fitted with a tilt switch that prevents the motor from running unless it is in the deployed (vertical) position.
• Check that battery connection has not been reversed (reversed polarity)
• Check that your 12v deep cycle battery is fully charged (+ 12v)
• Check terminals / connections are secure and not loose
• Check terminals / connections / fuse or circuit breaker for any signs of damage, corrosion or build up of debris
• If battery lead has been extended, ensure correct gauge wire has been used (refer to table on page 10 of manual)
• Remove propeller and check for any build up of fishing line / weed or any other debris
• Check that propeller pin (shear pin) is in place
• Armature or magnet cracked or dislodged – grinding noise will come from motor (CONTACT REPAIR AGENT)
Noise or vibration coming from motor
Check that propeller is securely tightened and shear pin is in place
Remove propeller and check for any build up of fishing line / weed or any other debris
• Check that your 12v deep cycle marine battery is fully charged (+ 12v)

Motor will not run at variable speeds
• Check that your 12v deep cycle battery is fully charged (+ 12v)
• Check terminals / connections are secure and not loose
• Check terminals / connections / fuse or circuit breaker for any signs of damage, corrosion or build up of debris
• Check that foot control plugs are not not loose
• Check that foot control constant on/off switch is in the on position
  (refer page 13)

Difficulty deploying or stowing
• Ensure that you are following the correct deployment / stowing process
  (refer diagram on page 5)
• Check for any obstructions within the mounting bracket
• Lubricate shaft with spray lubricant
  (concentrate spray on area where shaft runs through turning motor housing)
• Clean any debris from the mounting bracket
• Remove the side plastic covers from the mounting bracket and apply marine grade grease to the mechanism

Remote control hand unit not operational
• Battery may need to be changed
• Re-sync hand unit to motor (refer page 12)

Foot control unit not operational or one or more functions not operational
• Check that foot control lead plugs are secured
• Refer to foot control operation guide on page 13

A number of service videos are available on the Jarvis Walker Brands Youtube channel – search “Jarvis Walker Brands” from the Youtube search function. Please contact Jarvis Walker or your nearest service agent should issues persist.
## Model Specifications

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<tr>
<th>Code</th>
<th>Motor Description</th>
<th>Thrust</th>
<th>Volt</th>
<th>Amps</th>
<th>Watts</th>
<th>RPM</th>
<th>Shaft</th>
<th>Colour</th>
<th>Bracket</th>
<th>Steering</th>
<th>Speeds</th>
<th>Prop</th>
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<td>White</td>
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<td>3-Speed</td>
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<td>Foot Control</td>
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<td>3-Speed</td>
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Model range and specifications are correct at time of printing.
For new models not listed here find specifications at: www.jarvismarine.com.au
MOTOR SELECTION GUIDE

WATERSNAKE SHAFT LENGTH GUIDE
With your boat in the water, measure the distance from the mounting surface of the transom or bow to the water level. The guide shown on the right will assist you in finding the shaft length that best suits your boat.

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<th>Suggested Shaft Length</th>
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<td>Up to 10&quot;</td>
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<td>54&quot;</td>
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<table>
<thead>
<tr>
<th>Bow Mount to Water Level</th>
<th>Suggested Shaft Length</th>
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<td>14&quot; to 20&quot;</td>
<td>42&quot;</td>
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<tr>
<td>20&quot; to 24&quot;</td>
<td>48&quot;</td>
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<td>54&quot;</td>
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<td>32&quot; to 36&quot;</td>
<td>60&quot;</td>
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</table>

WATERSNAKE MOTOR SIZE GUIDE
The graph shown right is a general guide only. Always speak with your dealer regarding the size of motor that is most appropriate for your boat.

www.watersnake.com.au
SERVICING YOUR WATERSNAKE ELECTRIC MOTOR

When it’s time for your Watersnake electric motor to be serviced, it is recommended you choose to use an Authorised Service Agent such as Anglers’ Central Service Centre to perform the service. Watersnake electric motors are precision instruments that rely on exacting alignment of numerous components; it is worth considering taking your electric motor to an Authorised Service Agent for servicing.

IMPORTANT!

If you choose to service the electric motor yourself or through any other third party not authorised by Watersnake Distribution Pty Ltd to service Watersnake motors, the motor will no longer be covered under the normal consumer guarantees. Items or issues from that time on and thereafter will be the sole responsibility of the owner. It is important to make sure you use good quality grease, and remember do not over lubricate. Small amounts of grease in the correct places are more important.

Watersnake Trolling Motor Connectors

Watersnake Motor Connector Plugs makes it very quick and simple to remove and replace your motor from the boat as well as providing a better connection to your power source. Available in a 12v plug.
WATERSNAKE MOTOR ACCESSORIES SOLD SEPARATELY
(SEE YOUR NEAREST DEALER FOR MORE INFORMATION)

Watersnake Propeller Kits (Sold Separately)
Watersnake Propeller kits contain a propeller, nut and shear pins. It is recommended you keep a spare propeller on your boat at all times. The Mini 2-Bladed Kit is suitable for the T-18 and T-24 motors. The 2-Bladed Propeller Kit is suitable for 28lb, 30lb and 34lb motors. The 3-Bladed Medium Propeller Kit is suitable for all 44lb and 54lb motors. The 3-Bladed Large Propeller Kit is suitable for all 70lb, 80lb and 105lb motors.

Watersnake Telescopic Extendable Motor Handle
The Watersnake Telescopic Handle can extend to 24" and will fit most tiller handles. Please note this accessory does not fit the ASP series of motors. 55507

Watersnake Propeller Accessory Kit
This kit is very handy and we suggest you keep one at all times. Consists of a propeller nut wrench, propeller nut and shear pins. 55132

www.watersnake.com.au
SHADOW MK II
NGRC REMOTE
MOTOR PART 1

Watersnake
When going out on the water make sure that you have enough PFDs for everyone. (Please ensure you choose the correct PFD for the right application.)

Watersnake offers an extensive range of PFDs for both adults and children. They come in a range of styles and sizes and they all meet the Australian and New Zealand safety standard. See your nearest Watersnake stockist for the full range or visit our website: www.watersnake.com.au for more information.
## Contact Information

### Region/Country Distributor Phone

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- **Australia**  Jaros Walker  +61 3 8787 6700
- **West Australia**  Benbow Outdoors  +61 8 9302 5552
- **China**  Jaros Walker International  +86 21 6356 5078
- **South Korea**  Plady Co., Ltd  +82 10 9894 9938
- **New Zealand**  Brittain Wynyard  +64-9 309 0519
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