



WATERSNAKE[®]
ELECTRIC MOTORS

HAWSER

**BOW MOUNT CABLE STEER ELECTRIC MOTOR
OWNERS MANUAL**

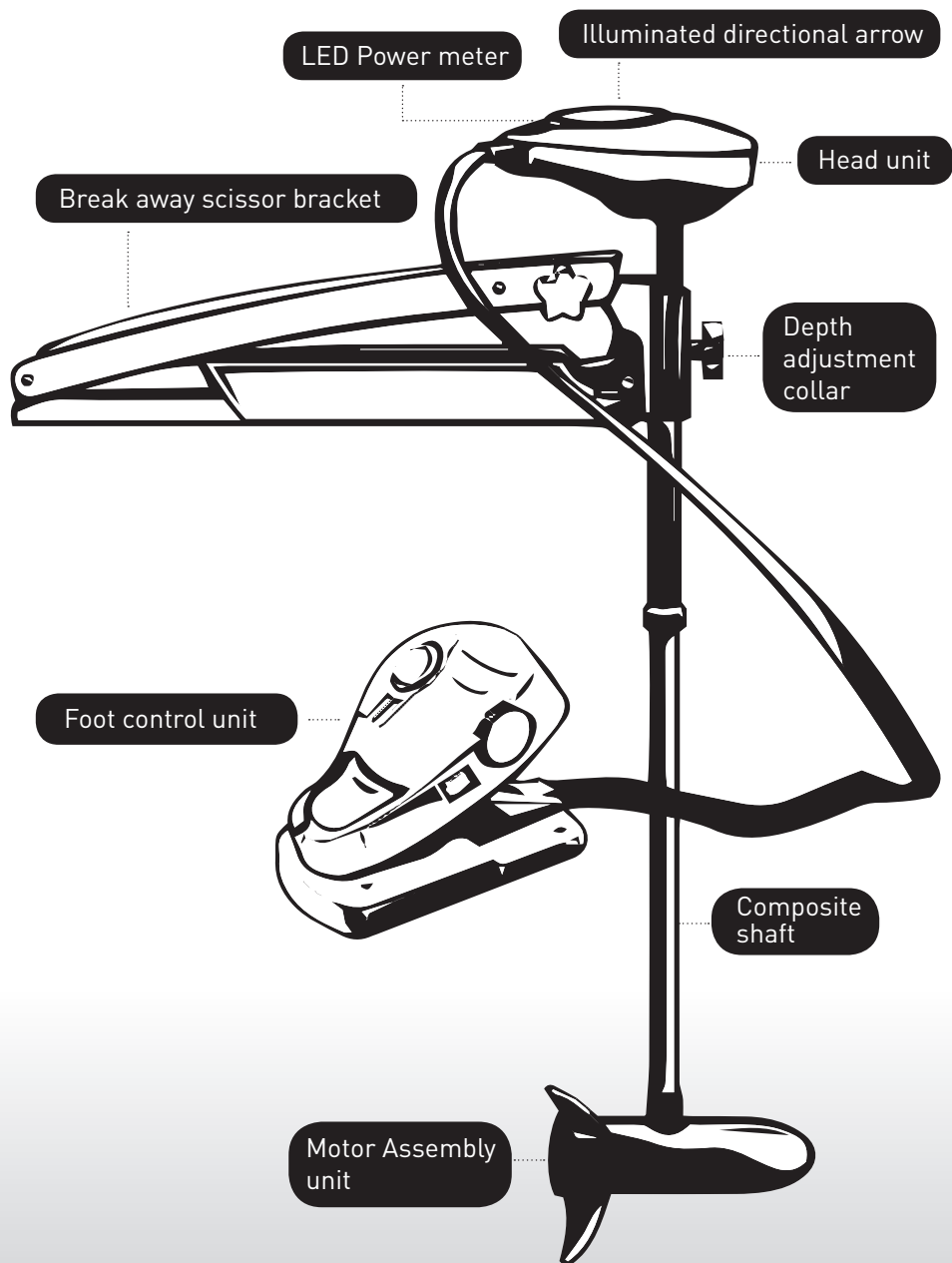




WATERSNAKE®
ELECTRIC MOTORS

MODEL	54/48 (HAWSER)
VOLTAGE (V)	12
MAX.THURST (LB)	54
SHAFT LENGTH (IN)	48
MIN AMP DRAW (A/H)	13
MAX AMP DRAW (A/H)	54
PROP	3 BLADE
FOOT CONTROL	1
MOUNTING	BOW MOUNT
REQUIRED BATTERY	12v DEEP CYCLE MARINE
MIN. RECOMMENDED BATTERY SIZE	80 - 100 AMP HOUR **

**** 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
- 12 v 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 9
- 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 9

PRE-USE CHECKLIST – CHECK BEFORE EACH USE

- Ensure that your Watersnake motor is securely attached to your boat (refer to page 5 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

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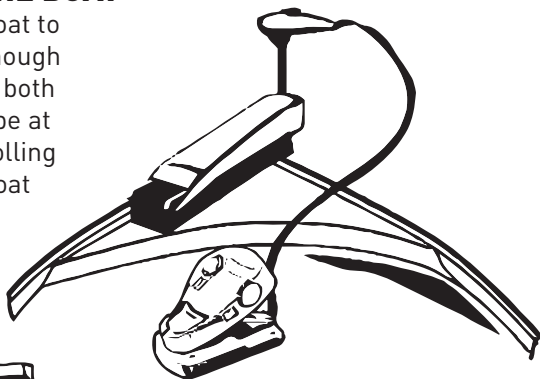
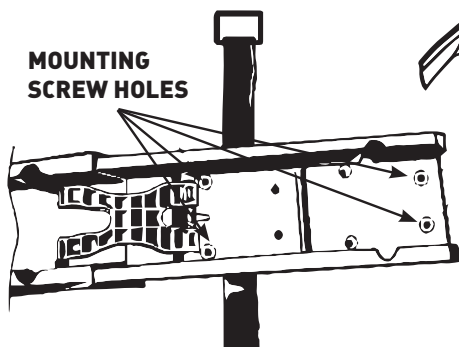
Congratulations and welcome to a world of silent motoring.

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 the manual completely before starting installation.

ATTACHING THE MOTOR TO THE BOAT

Select the area on the bow of your boat to install the mount. Ensure there is enough room for all of the motors positions, both stowed and deployed. There should be at least 3" of clearance between the trolling motor shaft and the rub rail of the boat when in the deployed position.



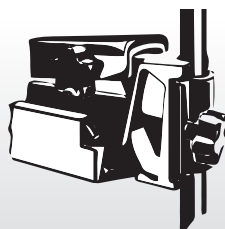
With the holes drilled attach the bracket to the bow of your boat with stainless steel bolts, nuts and washers. It is important when doing this work that the boat is level. After this is done close the mount. The mount bracket should close lock, and open again with no wobble or movement on the bow of the boat. Once the bracket is secure install the motor shaft into the bracket.



LOOSEN KNOB



OPEN BRACKET DOOR



**INSTALL SHAFT AND
TIGHTEN KNOB**

PLEASE NOTE:

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



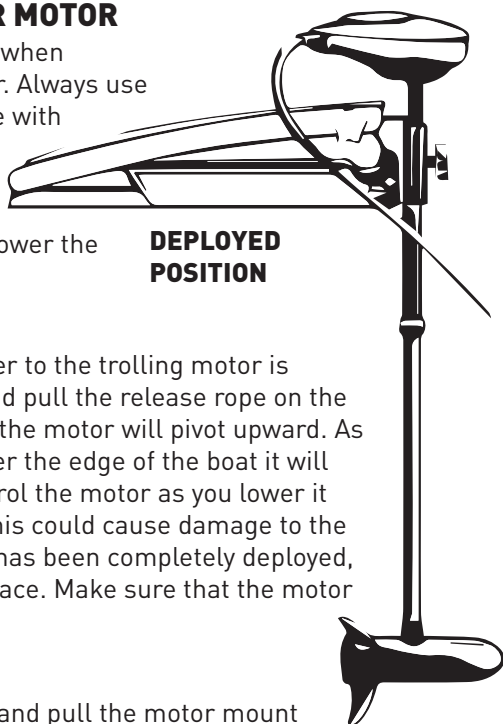
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IMPORTANT PLEASE READ BEFORE USE.

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

DEPLOYING AND STOWING YOUR MOTOR

It is important that you exercise caution when deploying or stowing your Hawser motor. Always use the supplied trolling motor release rope with handle to deploy or stow your motor. Keep your hands and feet away from the scissor bracket mount to avoid injury. Use your legs to raise and lower the trolling motor. Do not use your back.



DEPLOYED POSITION

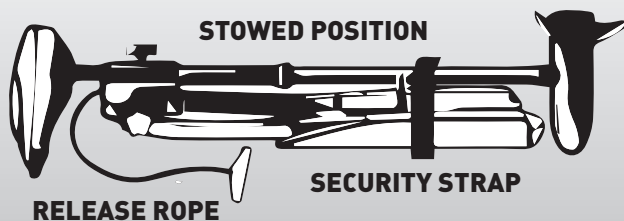
DEPLOYING

To deploy the motor make sure the power to the trolling motor is turned off. Release the security strap and pull the release rope on the motor mount. Once the mount releases the motor will pivot upward. As the lower section of the motor pivots over the edge of the boat it will get heavier. It is important that you control the motor as you lower it into the water. Do not allow it to drop. This could cause damage to the motor and to the boat. When the motor has been completely deployed, you will hear the motor mount lock in place. Make sure that the motor is secured by the mount before using.

STOWING

Turn off the power to the trolling motor and pull the motor mount rope handle. The motor will pivot up out of the water and then into a horizontal position. Gently lay the motor into the mount and make sure the mounting bracket locks into place. You will hear a click when the motor is locked into place. Lastly secure the motor with the security strap.

Ensure your motor is properly stowed and secured before driving and or moving your boat to avoid damage.



STOWED POSITION

RELEASE ROPE

SECURITY STRAP

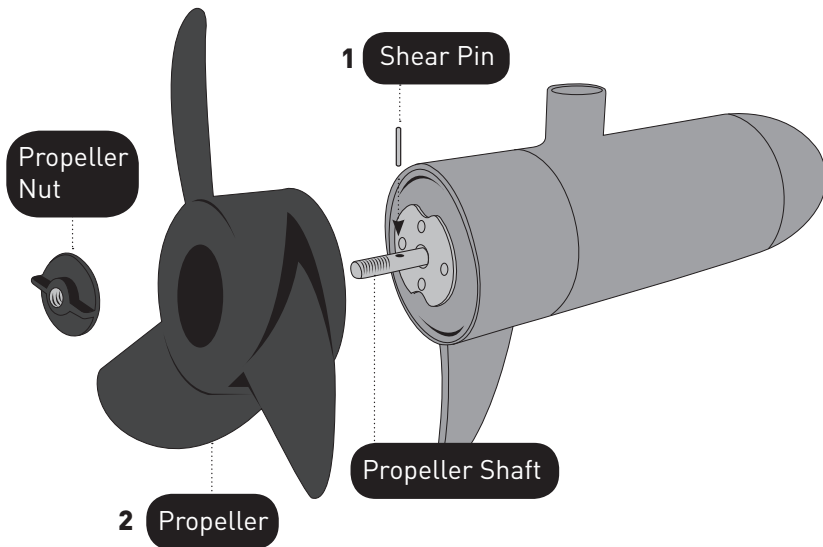
PLEASE NOTE:

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

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.



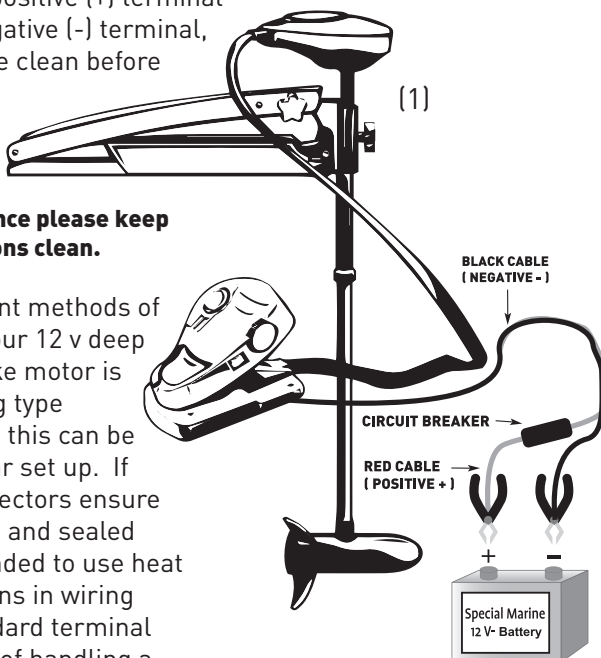
ELECTRICAL CONNECTIONS

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.

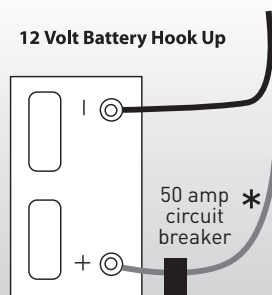
There are a number of different methods of connecting battery leads to your 12 v deep cycle battery. Your Watersnake motor is supplied as standard with ring type terminal connectors although this can be changed to suit your particular set up. If fitting different terminal connectors ensure that connections 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 electrics 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.

12 Volt Battery Hook Up



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.

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.

DEPTH ADJUSTMENT

Hold the motor shaft with one hand, loosen the bracket door screw and set the motor to the desired depth. Then retighten the adjusting screw on the depth bracket door securely. (For full instruction refer to page 5)

Ensure your motor is properly stowed and secured before driving and or moving your boat to avoid damage.



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OPERATING THE MOTOR

To operate the motor, deploy the motor into the water as shown on page 6. Ensure the motor unit is fully submerged into the water.

Turn on the power switch located on the right hand side of the foot pedal. This is a 3 position switch. When the switch is in the middle or neutral position, the power to the motor is off. The motor will not draw any power from the battery in this position. When the switch is toggled down toward the rear of the boat the power to the motor is on and can be utilized by pressing the momentary switch.

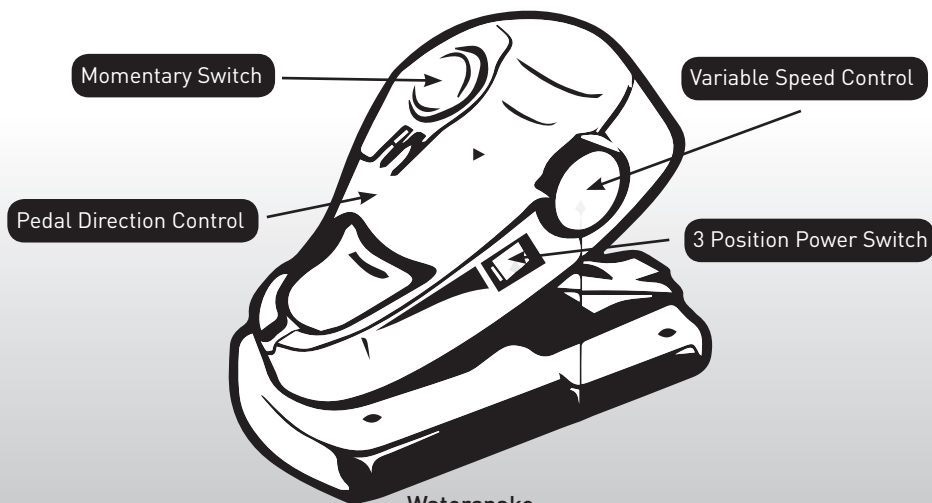
When the switch is toggled forward toward the front of the boat, the motor will run constantly at the preset desired speed. The speed is set using the variable speed control knob.

SMOOTH START

Smooth start gradually increases the speed of the motor to the maximum preset speed once the momentary switch is depressed. This helps the user maintain their balance once the boat begins to move.

Just above the power switch on the foot control unit is the variable speed control for the motor. The power to the motor is increased from off to high as the speed control knob is rotated forward (clockwise).

The momentary switch is located on the left hand side of the foot pedal. When the momentary switch is pressed the motor will activate and reach the preset speed that you have set with the variable speed control. When the momentary switch is released the motor will stop.

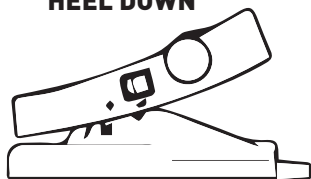


STEERING THE MOTOR

Note that there is a directional arrow on the top of the head unit of the motor. When the foot pedal is level, the arrow should point straight. If the arrow is not pointing straight loosen the mounting bracket and turn the upper shaft of the motor until the arrow is pointed straight ahead, then tighten the mounting bracket.

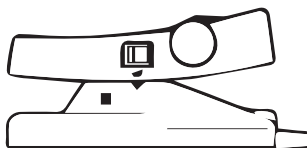
The position of the foot control determines the direction of the motor. When the foot control is level the motor will point straight ahead. As the foot control is depressed with the toe of the foot the motor will turn to the right (clockwise). When the foot control is completely depressed forward the motor will swivel completely around and cause the boat to move in reverse. When the foot control is depressed with the heel of the foot the motor will turn left (counter clockwise). When the foot control is completely depressed backward the motor will swivel completely around and cause the boat to move in reverse.

**FOOT CONTROL
HEEL DOWN**



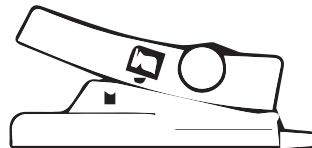
LEFT TURN

**FOOT CONTROL
LEVEL**



STRAIGHT

**FOOT CONTROL
TOE DOWN**



RIGHT TURN



WATERSNAKE®
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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 where the bracket is attached.

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)

- 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 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 12

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 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

- 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 9 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 power cables are not loose
- Check that foot control constant on/off switch is in the forward position (refer page 10)

Difficulty deploying or stowing

- Ensure that you are following the correct deployment / stowing process (refer diagram on page 6)
- Check for any obstructions within the mounting bracket
- Lubricate shaft with spray lubricant
(concentrate spray on area where shaft runs through the bracket)
- Clean any debris from the mounting bracket

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.



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ELECTRIC MOTORS

MODEL SPECIFICATIONS

CODE	MOTOR DESCRIPTION	THRUST	VOLT	AMPS	WATTS	RPM	SHAFT	COLOUR	BRACKET	STEERING	SPEEDS	PROP
55149	Hawser TS54/48	54lb	12v	13-54	156-640	1370	48"	Black	Scissor	Foot Control	Variable	3-Blade

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

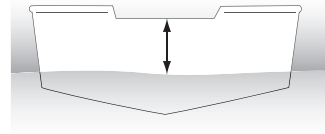
WATERSNAKE SHAFT LENGTH GUIDE

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.

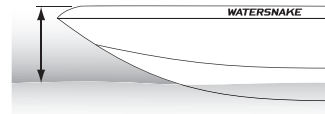
Transom Mount to Water Level	Suggested Shaft Length
Up to 8"	24"
Up to 10"	26"
Up to 12"	30"
10" to 14"	36"
14" to 20"	42"
20" to 22"	48"
22" to 24"	54"

Transom Mount Measurement



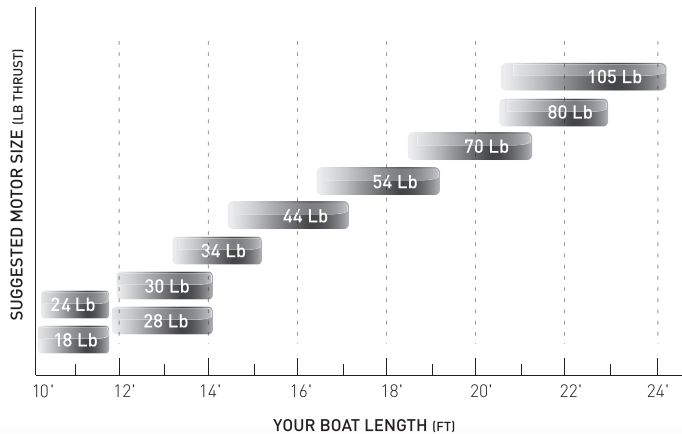
Bow Mount to Water Level	Suggested Shaft Length
14" to 20"	42"
20" to 26"	48"
26" to 32"	54"
32" to 36"	60"

Bow Mount Measurement



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.





SERVICING YOUR WATERSNAKE ELECTRIC MOTOR

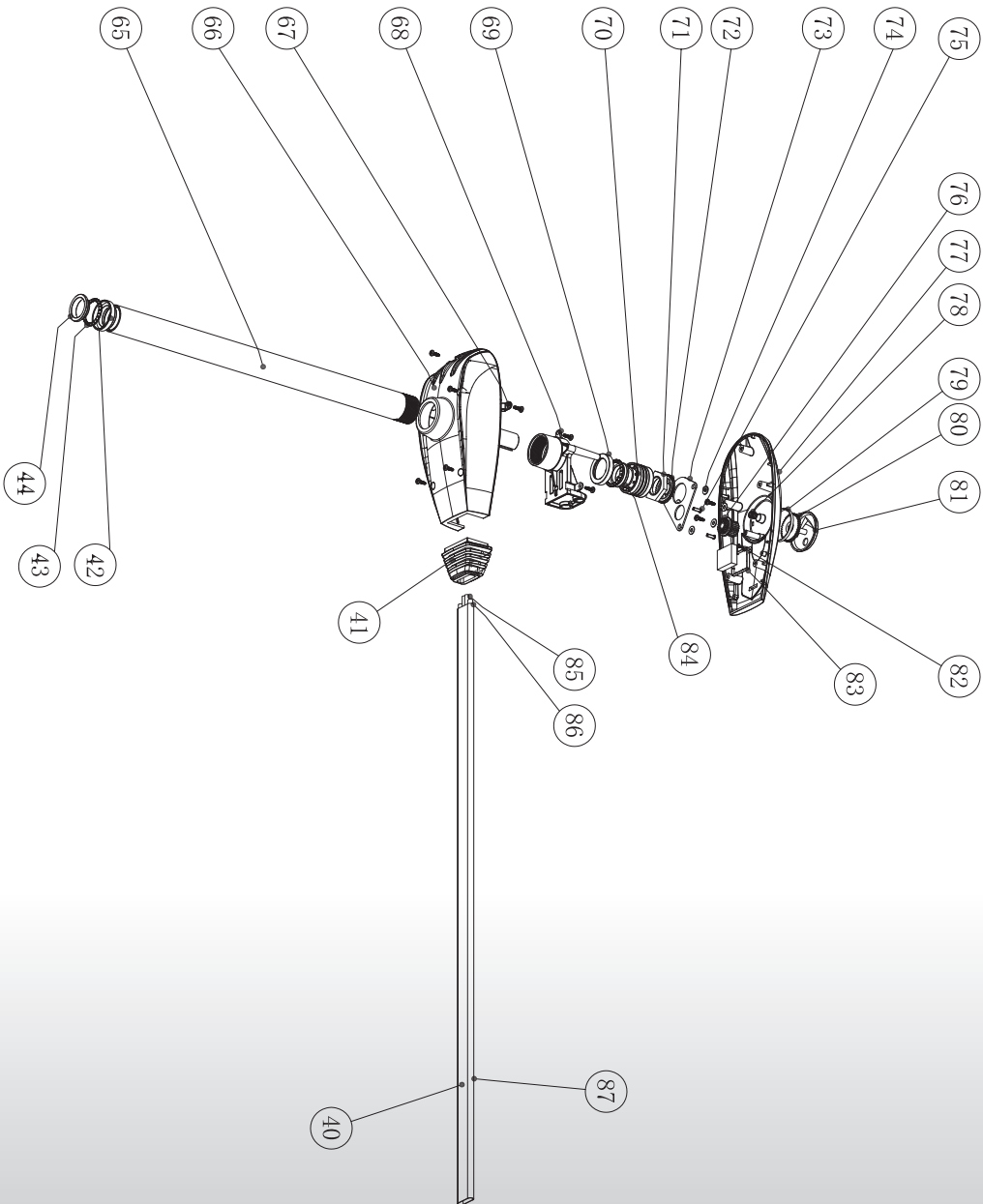
When it's time for your Watersnake electric motor to be serviced, it is recommended you choose to use an Authorised Service Agent such as Anglers' Central Service Centre to perform the service.

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.

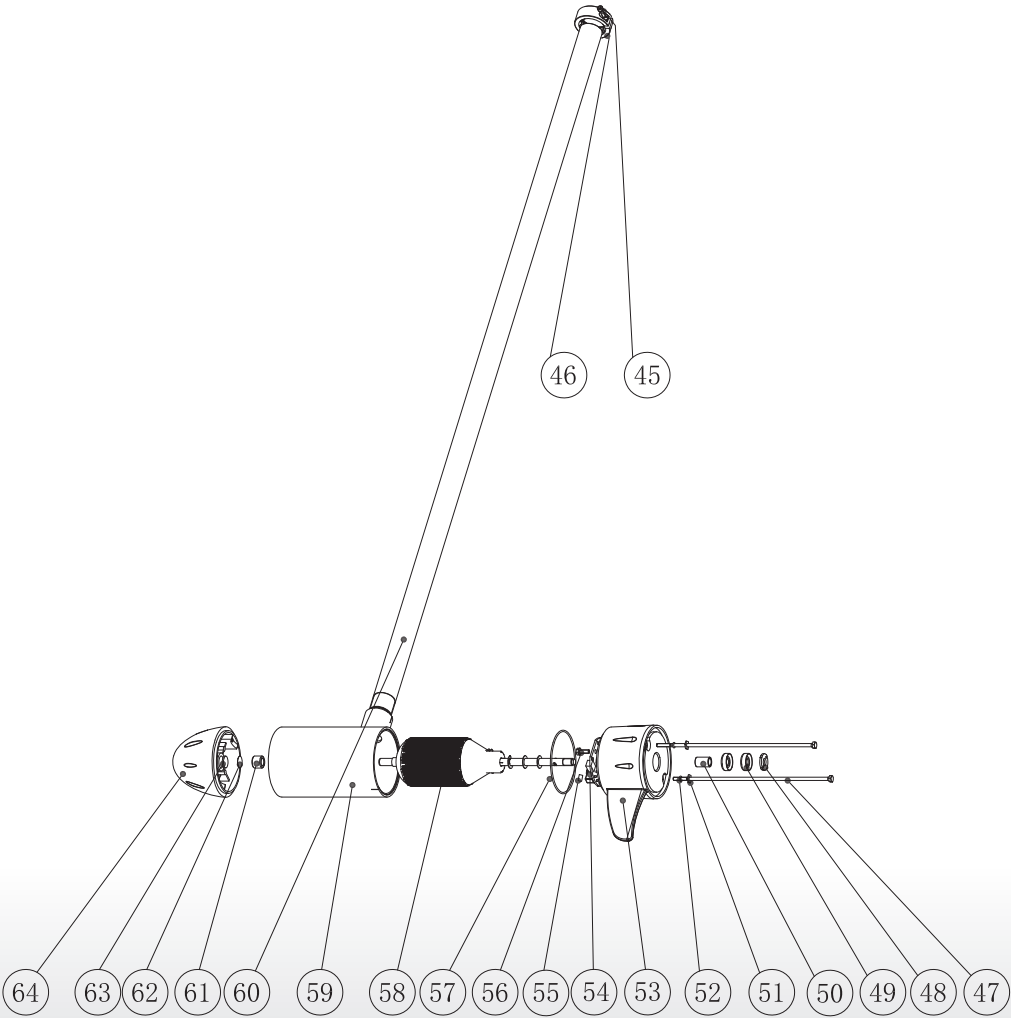
IMPORTANT!

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.

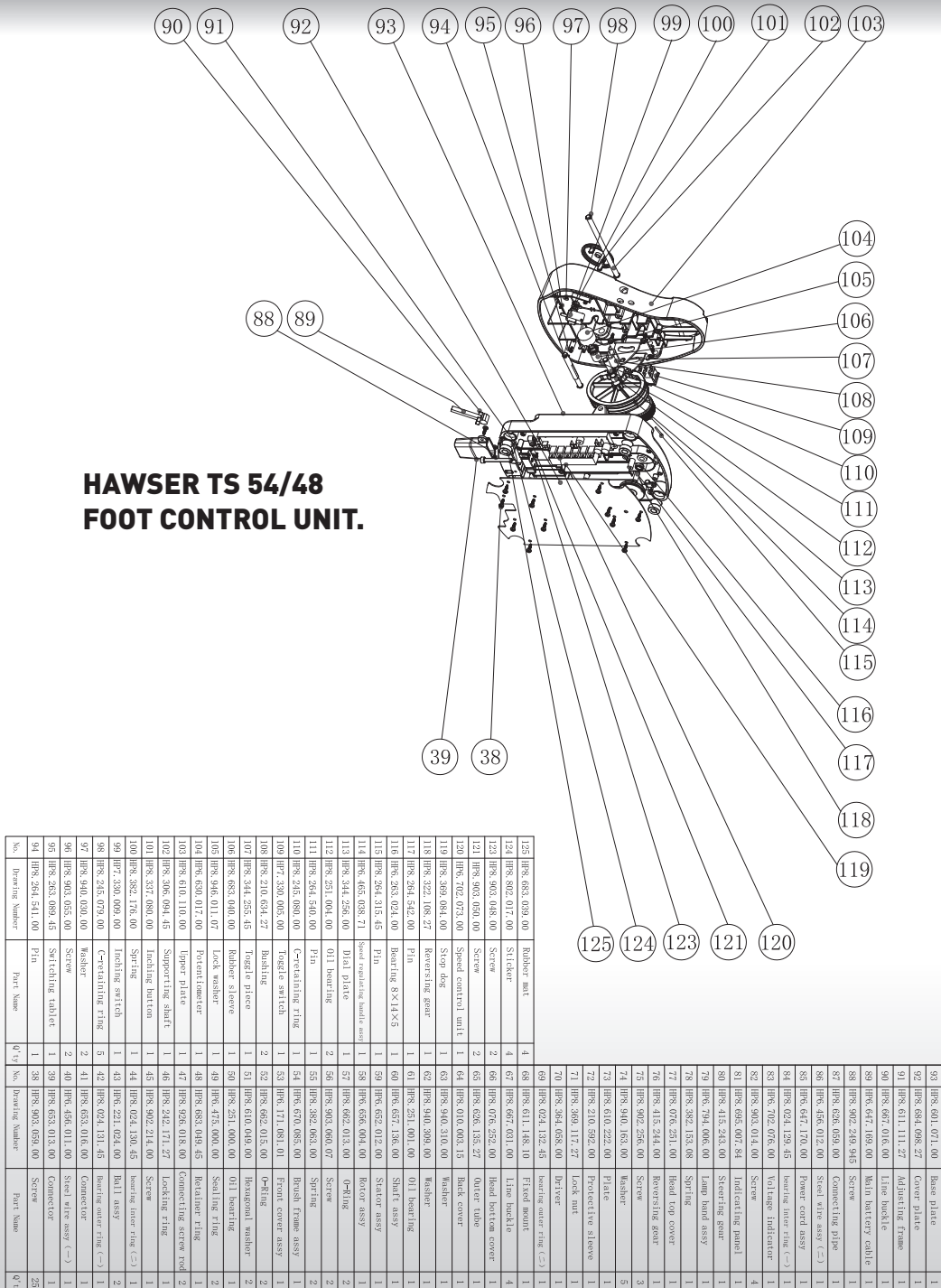
HAWSER TS 54/48 UPPER SHAFT AND HEAD UNIT.
SEE PAGE 21 FOR PARTS NAME LIST.



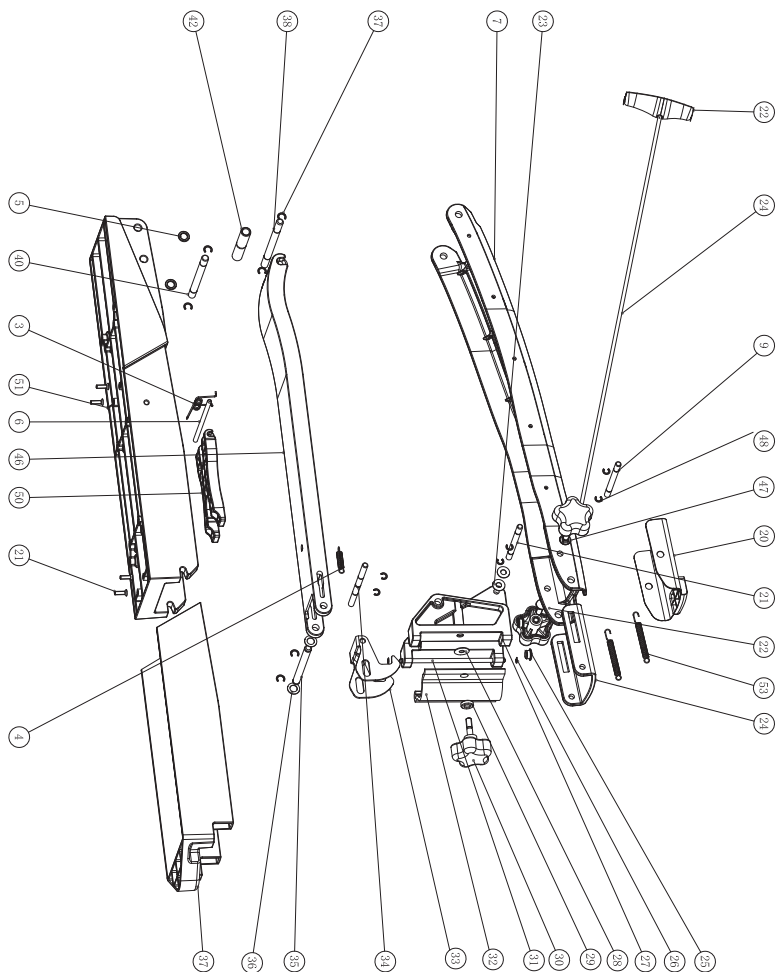
**HAWSER TS 54/48 LOWER SHAFT AND MOTOR UNIT.
SEE PAGE 21 FOR PARTS NAME LIST.**



HAWSER TS 54/48 FOOT CONTROL UNIT.



HAWSER TS 54/48 SCISSOR BRACKET



37	HP8, 610, 008, 00	Sliding plate	1
36	HP8, 940, 407, 00	Washer	2
35	HP8, 306, 056, 45	Ball sleeve lower shaft	1
34	HP8, 306, 055, 45	Pull rod shaft	1
33	HP8, 262, 022, 00	Pull buckle	1
32	HP8, 223, 076, 15	Right bushing	1
31	HP8, 306, 064, 45	Rotary shaft pin	1
30	HP6, 480, 010, 00	Lock handle	1
29	HP8, 220, 278, 00	Bushing	1
28	HP8, 940, 219, 00	Washer	1
27	HP8, 223, 075, 15	Left bushing	1
26	HP8, 245, 078, 45	C-Ring	2
25	HP8, 210, 391, 00	Wire cover	1
24	HP8, 610, 109, 15	Sliding plate	1
23	HP8, 381, 052, 45	Spring	2
22	HP8, 465, 060, 00	Fixed handle	2
21	HP8, 306, 053, 45	Sliding plate shaft	1
20	HP8, 531, 313, 00	Decorative piece	1
19	HP8, 904, 068, 07	Square neck bolt	2
18	HP8, 245, 079, 45	C-Ring	6
17	HP8, 306, 054, 00	Buckle shaft	1
16	HP8, 636, 007, 00	Pulling rope	1
15	HP8, 333, 082, 00	Handle	1
14	HP8, 940, 375, 00	Washer	5
13	HP8, 008, 007, 15	Support frame	1
12	HP8, 245, 080, 45	C-Ring	6
11	HP8, 306, 057, 45	Lower support shaft	1
10	HP8, 626, 044, 00	Cushion pipe	2
9	HP8, 220, 324, 00	Bushing	2
8	HP8, 303, 024, 45	Rotation axis	1
7	HP8, 583, 118, 00	Torsional spring	1
6	HP8, 601, 056, 15	Base	1
5	HP8, 306, 053, 45	Fixed shaft	1
4	HP8, 625, 043, 15	Stand bar	1
3	HP8, 611, 154, 00	Fixed mount	1
2	HP8, 902, 216, 00	Screw	4
1	HP8, 381, 027, 00	Spring	1

WATERSNAKE MOTOR ACCESSORIES SOLD SEPERATLY (SEE YOU 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.



55501
Large 3 Blade
Prop (70lb-105lb)



55130
3 Blade Prop
(44lb-54lb)



55131
2 Blade Prop
(28-34lb)



55500
2 Blade Mini Prop
(18lb-24lb)



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

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



(Please note: Accessory availability may vary from region to region. Please check with your retailer for availability.)

WATERSNAKE®

CONTACT INFORMATION

REGION/COUNTRY	DISTRIBUTOR	PHONE
Asia Pacific		
Australia	Jarvis Walker	+61 3 8787 6900
(West Australia)	Benbow Outdoors	+61 8 9302 5552
China	Jarvis Walker International	+86 21 6356 5078
South Korea	Plady Co., Ltd	+82 10 9894 9938
New Zealand	Brittain Wynyard	+64-9 309 0519
USA		
	Innovative Procurement, LLC	+1 573 346 7447
Africa		
South Africa	Apex Walker	+27 11 7920 611
Russia		
	Badger Ltd.	+7 812 321 8880
Europe		
Austria	Aquazona	+420 386 357 881
Bosnia	Aquazona	+420 386 357 881
Bulgaria	Aquazona	+420 386 357 881
Czech Republic	Aquazona	+420 386 357 881
Denmark	Wiggler AB	+0303 798 744
Finland	Wiggler AB	+0303 798 744
Germany	World Fishing Tackle	+49 0 900 123 58 13
Ireland	Masterline Walker	+44 0 1684 299 000
Italy	Europesca Sport	+39 06 6500 2449
Luxembourg	World Fishing Tackle	+49 0 900 123 58 13
Montenegro	Aquazona	+420 386 357 881
Netherlands	World Fishing Tackle	+49 0 900 123 58 13
Norway	Wiggler AB	+0303 798 744
Romania	Aquazona	+420 386 357 881
Serbia	Aquazona	+420 386 357 881
Slovakia	Aquazona	+420 386 357 881
Slovenia	Aquazona	+420 386 357 881
Sweden	Wiggler AB	+0303 798 744
United Kingdom	Masterline Walker	+44 0 1684 299 000

www.watersnake.com.au

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