



Innovation for
Angler Fans



JABO-II

Remote Control Bait Boat



JABO-2AS



JABO-2BS



JABO-2D

Catalogue

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Notice: JABO-II series remote control bait boat only suitable for use in reservoir, lake and pond. Not suitable for sea, rivers, and have the wind or waves of water use.

Instruction of JABO-II Remote Control Bait Boat

Please read the specification below carefully before use

Fishing fans usually adopt many ways of casting bait, such as casting, hand releasing and boating. All these methods share some common disadvantages like short casting distance, inaccurate locating, and they are inconvenient and somewhat unsafe. Through repeated tests and improvement, we are excited to introduce another successful product series --- JABO-2 remote control bait boat series. JABO-2 series includes 3 products: JABO-2AS, JABO-2BS, and JABO-2D. JABO-2AS is the basic model. JABO-2BS adds three more functions on the basis of 2AS, which are sonar fish finder, water temperature detection, and fish-tempting light. Compared with these two models, JABO-2D enhances height of boat body, stability and loading capacity. Besides all the functions of 2BS, 2D can move backwards. What's more, 2BS and 2D controllers are both equipped with big LCD screens.

I. Major features of JABO-2 series

- (1) The whole body of boat is made of high-quality engineering plastics, which ensures the boat to be sturdy and durable.
- (2) The hull is to be disassembled, convenient for adjustment and repair.
- (3) The power is provided by double 545 motors. The
- (5) The design of broader hull enables JABO-2 series boats to resist stronger waves compared to JABO-1 series, which makes sailing more stable and smooth.
- (6) For working at night, three sailing indicator lights are equipped for operators to identify and control the sailing direction. (Customized night fishing light can be optional accessory)
- (7) Yaw adjustment function, making yaw adjusted by setting each-side motor's speed.
- reduction gear greatly enhances the efficiency of machinery and extends sailing time.
- (4) The coverage with stainless steel at the bottom of the hull can effectively prevent weeds and floaters from twisting, and also extend the service life of propellers.
- (8) Water depth detecting, temperature detecting and sonar fish finding functions. (For 2BS and 2D models)
- (9) Large LCD screen provides convenience for observing. (For 2BS and 2D models)
- (10) Fish-tempting light (For 2BS and 2D models)
- (11) Ability to move backwards. (For 2D model only)

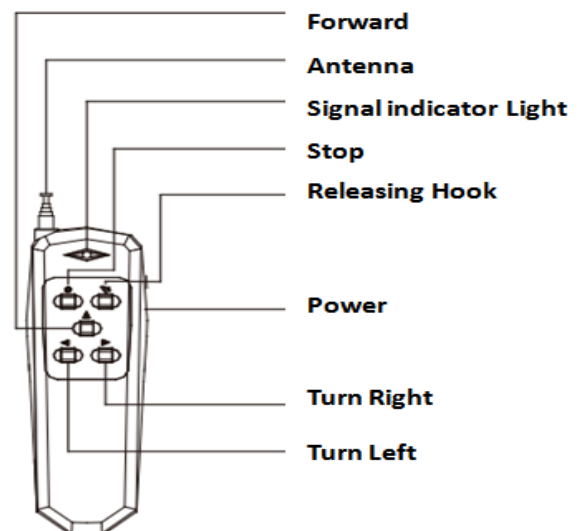
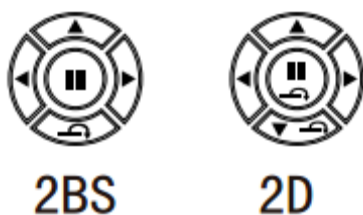


Chart 1: 2AS Remote Control Panel

II. Major technical indices:

Boat

	2AS	2BS	2D
Dimension	620 * 263 * 180 mm		620 * 263 * 230 mm
Weight	6 kg (battery included); 4 kg (battery excluded)		4.3 kg (battery excluded)
Power Supply	6V / 10Ah rechargeable battery, 3-hour continuous work after fully charged		
Major moves	Forward, turn left, turn right, and releasing hook; backward (for 2D only)		
Speed	80 meters / minute		
Ultrasonic depth detecting	1-32 meters		
Control distance	Up to 300 meters		
Bait capacity	1.5 kg		
Power of fish-tempting light	1 W		

Remote Control

	2AS	2BS	2D
	Transmitter adopts address coding; receiver automatically recognizes		
Power Supply	F22 battery	4 pieces of AAA batteries	
Dimension	150*45*24 mm	130*85*30 mm	
Length of Antenna	258 mm	170 mm	
Operating Power	433 mh		

III. Instructions

- (1) Installation of battery:** Open upper cover of boat. (Do not unplug electronic lines which have been connected). In the body bottom of boat have device to fix battery position. Put battery into fixing device. (If battery doesn't install into fixing device, the boat will tilt in the water and serious capsized happened). Do not install battery reversely to avoid boat unbalance. There have two battery fixing device in the cabin of boat. Remove the front of fixing device, put battery into rear fixing device, and then put full battery into square set smoothly. Tighten the all screws of fixing device. Connect plug of battery with socket in the boat correctly. Notice: The red line of the plug should connect with red line of socket; black line should connect with black line of the socket. Put back waterproof ring, and then close the upper cover with screws.
- (2) Installation of transmitter battery:** The transmitter of JABO-2AS uses F22 battery. JABO-2BS and JABO-2D use 4 pieces of AAA battery. Notice: Make sure the positive side and negative side of the battery is connecting correctly to the remote control.
- (3) Operation functions Test:** Test operations functions before boat entering the water.
- Electricity: Put boat on the stale place, and then turn on the power on the cover of boat. Receiver working normally when red luminotron on the boat are flickering.

- b. Compare code: Turn on the remote control and press stop button. Red luminotron from flickering change to lighting, means transmitter and receiver compare code successfully. Factory setting address code (ID) at receivers and transmitters for using more than one boat at same place at the same time. After turn on the boat, the receiver will identify remote control ID first always. After identify each other, the receiver only receive signal from identified remote control. Notice, receiver need identify ID time when turn on the boat every time.
- c. Forward: Press forward button on the remote control, both of motors starting running. The indicate lights of right and left side lighting. If don't press stop button, the boat will stop automatically after 50 seconds.
- d. Left-turning and right-turning: Press left or right button on the remote control. When boat turning left, the right motor running and left indicate lamp lighting. Other side as reversely. If don't press stop button, the boat will stop automatically after 50 seconds.
- e. Stop: Press stop, all action about boat will stop.
- f. Hook releasing function: To avoid wrong operation, the stop button must be pressed first, then press the bait-dropping button every time before hook-releasing operation. JABO-2D has backward function, therefore JABO-2D need press stop and releasing buttons together to release hook.



Notices of operate hopper:

- i. Do not try to use hand lift hopper to avoid hopper damaged permanently, because the hopper is working by motor driving.
 - ii. Hopper stop automatic action is working by magnet (2061) which at front of hopper and sensor (2006) together. Therefore when testing hook releasing function need install upper cover of boat first.
 - iii. User could apply some grease on the screw (2053) improve the skip bucket function and extend the working time of screw.
- g. Fish-tempting light (2BS, 2D): Press lamp button on the remote control to turn on the fish-tempting light which at bottom of boat. Press lamp button again to turn off. The LCD of remote control will display the current status of fish-tempting light.
 - h. Distance test: when use the remote control for the first time, you need to test the remote distance so that it would be under your control. If two people fish together, one could walk and hold the transmitter, pressing FORWARD button and STOP button alternately. The other person observes whether the propeller is normally working. The normal remote distance should be 300 meters roughly. But in the city or on the side of roads, the remote distance could be impaired a lot. (If you are alone, you can leave the boat in the water and make it sail along with the shore and measure the distance.)
 - i. Pressing delay function: press FORWARD, LEFT-TURNING, or RIGHT-TURNING button, the boat would start to move. Even after releasing the button, the boat would still keep the move for about one minute and then stop.

(4) Water test: before the water test, make sure that all the screws are fastened. Then check whether the boat is balanced. If not, check if the batter is positioned rightly.

- a. Ultrasonic detecting function (2BS, 2D): this function can work in open water area. Wrong detecting results could be made when the boat is in the air or in a narrow water area (like in the bath tub). The factory setting of the ultrasonic sensitivity is 60%, which is suitable in the water with depth of 2 to 5 meters. If the water depth is over 5 meters, the sensitivity should be adjusted higher accordingly. (The range of the sensitivity is between 0 and 100%)

[Setting of ultrasonic sensitivity]




Press SET button once to enter setting interface. When  sign flickers on the LCD screen, the ultrasonic sensitivity can be adjusted by pressing “+” or “—”. Press SET again to enter yaw adjustment interface, and  sign would flicker. Press SET again to exit setting mode. Then, the new settings of ultrasonic sensitivity and yaw adjustment are both saved in the memory of transmitter. Higher sensitivity is suitable in deeper water, and vice versa. A normal range for the sensitivity is between 50% and 80%.

- b. Yaw adjustment: since JABO-2 series adopt double motors, whose speed cannot be the same completely, yaw could happen.

Yaw adjustment for 2AS:

Leave the boat in water, press FORWARD button and observe the route. If yaw happens, in the meantime of pressing FORWARD button, press the opposite direction button to the direction of yaw. For example, if the boat yaws to the right, press FORWARD and LEFT buttons, the route can be adjusted to the left. The adjustment process for the first time could be repeated several times, so please be patient to finish the adjustment until you make the route right. Finally, you need to press STOP button to save the parameter when the adjustment is done.

Yaw adjustment for 2BS and 2D:

Method 1: if the boat yaws to the right or left, press SET button twice to enter yaw adjustment interface (refer to chart 3). Then,  sign would flicker on the screen and press “+” or “—” to make the adjustment. The value of adjustment can be shown in the Numerical Display Area (number 1 in the chart 3), and  sign would flicker accordingly to give indications. The value of adjustment should be between 10 and 15 every time, and test sailing by pressing FORWARD button. Repeat this process several times until the boat can move forward straightly. When the adjustment is done, press the SET button to save the parameter in the transmitter. Yaw adjustment scope is: left 100-0-100 right, 0 as the center. **Attention:** after the adjustment is done, and  sign is still flickering, press SET button to exit setting mode so that the parameter can be saved in the memory of the remote control. Or else, the parameter would be lost when the remote control is turned off.

Method 2: press the FORWARD button to observe the route. If yaw happens, in the meantime of pressing FORWARD button, press “+” or “—”. For example, if the boat yaws to the right, press FORWARD and “+” buttons, the route would be adjusted to the left. In the other case, if the boat yaws to the left, press FORWARD and “—” buttons, the route would be adjusted to the right. The adjustment process for the first time could be repeated several times, so please be

patient to finish the adjustment until you make the route right. Keep in mind that press STOP button to save the parameter after the adjustment is done. **Attention:** This electronic yaw adjustment function is designed for adjusting slight yaw phenomenon caused by discreteness of power system. If it is a serious yaw phenomenon caused by mechanical malfunction, the mechanical system should be examined and repaired. If the yaw is caused due to the incorrect positioning of the battery, the battery should be positioned correctly. When the value of adjustment is close to 100 or reaching 100, the motor on the corresponding side could stop turning. Please pay more attention when adjusting the value.

(5) Instructions of JABO-II series adapter

JABO series adapter is specially designed and produced for JABO series bait boat. The adapter using single chip microcomputer control and pulse charging mode, in order to realize efficient safe charge and extend the service life of the battery has a significant effect. JABO series adapter is limited to use for JABO remote control bait boat to charge 6V battery and indoor dry environment.

Applicable battery: 6V lead-acid storage battery

Input power supply: AC 110V-240V

Charge current: Max 1.5A, floating charge status: 0.2A

Charging by voltage: 7.2V

Indicator Light Status:

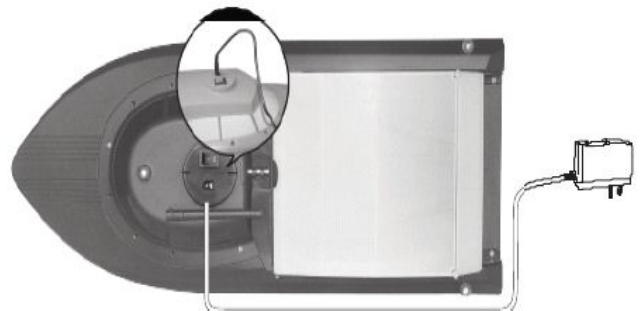
Green lamp lighting: the adapter has input AC power supply, but hasn't input battery or battery breakdown. (The battery maybe breakdown when the battery voltage is lower than 4V)

Red lamp flicker: The battery is at charging status when adapter input the socket on the boat. The charge time from 10-14 hours every time normally.

Red lamp lighting: The battery has fully charged.

Notice: If the battery still input after fully charged, the adapter would detecting battery voltage every one minute. The adapter would restart to boost charge to keep battery fully charged when the battery voltage lower than 6.8V. The output plug of the adapter doesn't output voltage when it doesn't input battery; therefore the adapter cannot be used as common power supply adapter.

Chart 2



1. Numerical display area

- 1) Water temperature display during normal working status.
- 2) Sensitivity display area when bait boat power off or no return signal received from bait boat.
- 3) Setting the project has the related symbols flashing hints when enter installed status.
 - a) Setting sonar sensitivity range 0--100 when display 7 icon.
 - b) Adjusting boat yaw range left 100—0—100 right when display 8 icon.
- 4) Factory frequency adjustment numerical display.

2. Power display area: alternative display boat and remote control power.

- 1) Display boat battery power status when show 4 icon.
- 2) Display remote control power status when show 5 icon.

3. Fish icon display area: when detecting fish under water, display fish icon and how many depths in the water (with 12 icon)

4. Display bait boat power icon: work with icon 2.

5. Display remote control power icon: work with icon 2.

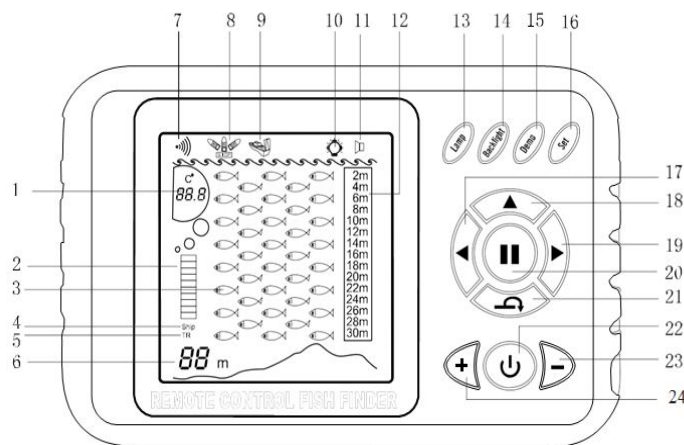
6. Water depth display area: display sonar detecting water depth. When display --, means sonar detecting failed.

7. Sonar sensitivity adjusting hint icon: flicker under sonar sensitivity adjusting status.

8. Display of boat sailing status: Display boat sailing status under normal working. Adjust boat yaw direction when setting status flicker.

9. Display of bait hopper status: display hopper status follow received signal from boat.

Chart 3



10. Display of fish-tempting lamp status: display lamp status follow received signal from boat.

11. Factory frequency adjustment numerical display.

12. Display fish position in the water

13. Switch of fish-tempting lamp.

14. Switch of LCD backlight lamp

15. Functions demonstrating button

16. Set button: enter/exist/project

17. Left-turning button

18. Forward button

19. Right-turning button

20. Stop button

21. Hook-releasing button: after press stop button, then press hook-releasing button to release hook.

22. Remote control power switch: Turn on/Turn off

23. Data - button: reduce the state set project of values at setting status.

24. Data + button: increase the state set project of values at setting status.

IV. Instruction of screen display status

Chart 3 display all working status on screen of remote control. (Some icons such as water temperature, fish-tempting lamp, water depth and boat battery power all need follow received return signal from boat, and then to display)

1. Fish-tempting lamp display: Press lamp button to turn on fish-tempting lamp which at bottom of boat. Display status 10.

2. Water temperature display: After connected boat and remote control, (1) display current temperature. If boat in the water, the screen display current water temperature.

3. Water depth display: (6) display water depth. Sonar detecting water depth range is 1-32 meter. Detecting water depth by sonar which at bottom of boat. Use setting button to adjust sonar sensitivity to get real water depth.
4. Fish icon display: when sonar sensor detecting fish under the water, fish icon area (3) and water depth area (12) corporate display there have fish under the water and the distance from fish to boat. If fish at same position but different depth under water, water depth area (12) display several water depth data at one time.
5. Boat sailing status: (8) display boat forward, turn left, turn right and stop status. (9) Display hopper status. After press hoppers (21) button, and then related status of hopper would display on the screen of remote control. Operator could know boat sailing status and hopper status from screen of remote control even at the night.
6. Battery power display: (2) power grid and (4) ship corporate show boat power. (2) power grid fully when battery voltage higher 6V. (2) reduce each grid related power reduce 0.2V. When battery voltage less or equal 4V, the power grid show empty. When battery voltage arrive 5.5V, the buzzer on the boat and remote control would alarm and icons of power grid and ship would flicker to hint operator need charge battery.
7. Remote control power display: (2) power grid and (5) TR icon corporate show remote control battery power. Its principle is the same as battery power.
8. Sensitivity status display: when turn on the remote control and turn off the boat, (1) area on the screen of remote control display sensitivity value is 0. Sensitivity factory setting value is 60%, adopting around 1-5 meter water depth. If setting high sensitivity in the shallow water, because of the ultrasonic sensor issued in water after multiple reflections is accepted, the screen will show the wrong water depth and fish icons.
9. Sensitivity adjusting status display: (7) icon is sensitivity at adjust status. When press SET button, (7) icon flicker into sensitivity adjust status, and then press SET button again, the remote control into the boat speed adjustment balance status. Press SET button to save and exist setting status. The value of adjustment of sensitivity and boat speed balance are stored in the remote control register to be permanently kept to adjust till the next time.
10. All status display: Press dome button simulate show that all status.

V. Battery maintenance

The life of battery has close connection with usage maintenance. Because of excessive discharge or undercharge or no additional charge for a long time, the active materials on the electrode board become lead sulfate which are big crystalline grain and hard character, bestrewing the surface of electrode board to block the electrode board micropore and hinder osmosis of electrolyte and conducting of electric current .It causes property of charge and discharge of a storage battery extremely worsen, causes actual capacity seriously insufficient, causes no deoxidation of lead dioxide and lead sponge with routine charging method, causes vulcanizing phenomenon and even damages the battery. Every time after usage, the storage battery should boost charge in time to make it at the full charged status. If it is not usage for a long time, the battery should be charged every two months to prolong its service life.

VI. Notice

1. Charge battery before sailing every time. Normal charge time is 10-14 hours.
2. When the boat battery voltage is too low, remote control alarm will sound and the boat forward blink will hint. At this time, should charge the battery.
3. The remote control need maintain sufficient power.
4. When install the battery, please notice anode and cathode to avoid installing reversely, preventing electronic board burned.
5. To avoid wrong operation, the stop button must be pressed first, then press the bait-dropping button every time before hook-releasing operation.
6. The bait capacity is not allowed to beyond the maximum bait capacity.
7. Turn down the boat button and remote control button in time every time after using.
8. Keep the boat dry for preserving and take out the battery if it isn't used for a long time. Charge the battery every 2 months to avoid the damage of long time natural discharge and shortening service life of the battery.
9. Do not allow to beyond the effective remote control distance when using boat.
10. Fasten all the screws before using.



JABO – 2AS



JABO – 2BS



JABO – 2D

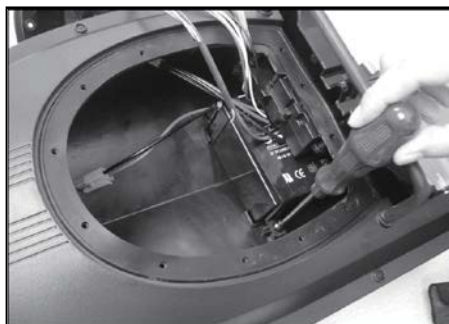
JABO-II remote control bait boat common fault analysis

Series	Fault phenomenon	Fault reason	Solution
1	Power indicate light doesn't work after turn on the power of boat	1. No install battery 2. No connected battery plug 3. Plug power at wrong polarity 4. Battery damaged	1. Install battery 2. Check battery plug and socket make sure connected 3. Return factory repair 4. Change battery
2	Power indicate light flicker and boat buzzer alarming	battery voltage too low	charge battery immediately
3	Press transmitter button, LED Light doesn't working	1. battery install reversed 2. transmitter battery no power 3. No turn on the transmitter switch	1. re-loaded battery correctly 2. change transmitter battery 3. turn on the transmitter switch
4	Transmitter LED light flicker	transmitter battery voltage not enough	change battery
5	Press transmitter button, hopper doesn't working	To avoid wrong operation, the stop button must be pressed first, then press the bait-dropping button every time before hook-releasing operation.	Follow the instruction
6	The boat in the water tilt seriously	Battery doesn't fixed correct position	Replace the battery
7	Boat in the water couldn't go straight	The variation of motor speed	Follow the instruction to adjusting
8	Boat in the water go to one side spin	1. one side of motor doesn't working 2. one side of propeller doesn't working	1. Check if motor working. 2. Check if tightened the propeller or big gear screws if loosen
9	Transmitter screen display fish icons fully	Press DOME button carelessly	Press DOME button exist simulation status
10	Water depth display abnormally	Sensitivity too high or too low	Adjusting sensitivity
11	Hopper doesn't stop when arrived position	Reed witch broken or magnet failure	change broken parts or return factory repair
12	Hopper doesn't dropping and luminotron flicker	1. propeller (2053) with slider fork (2050) get stuck 2. propeller and slider fork broken	1. Lose nut (2048) , and then remove spring (2049) and slider fork (2050) to replace install 2. Change damaged parts

Picture Introduction



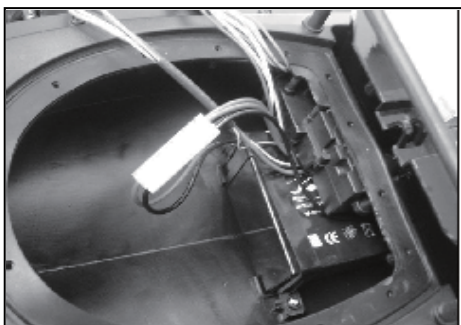
1. Open the upper cover with cross screwdriver.



2. Put a battery into the fixed mount in the boat smoothly, then fasten the battery case with screws.



3. Connect the plug of battery with socket in the boat correctly.



4. Plug and socket should be connected by wires with the same colors. (e.g. red connects with red)



5. Put on the waterproof ring, and fasten the upper cover with screws.


























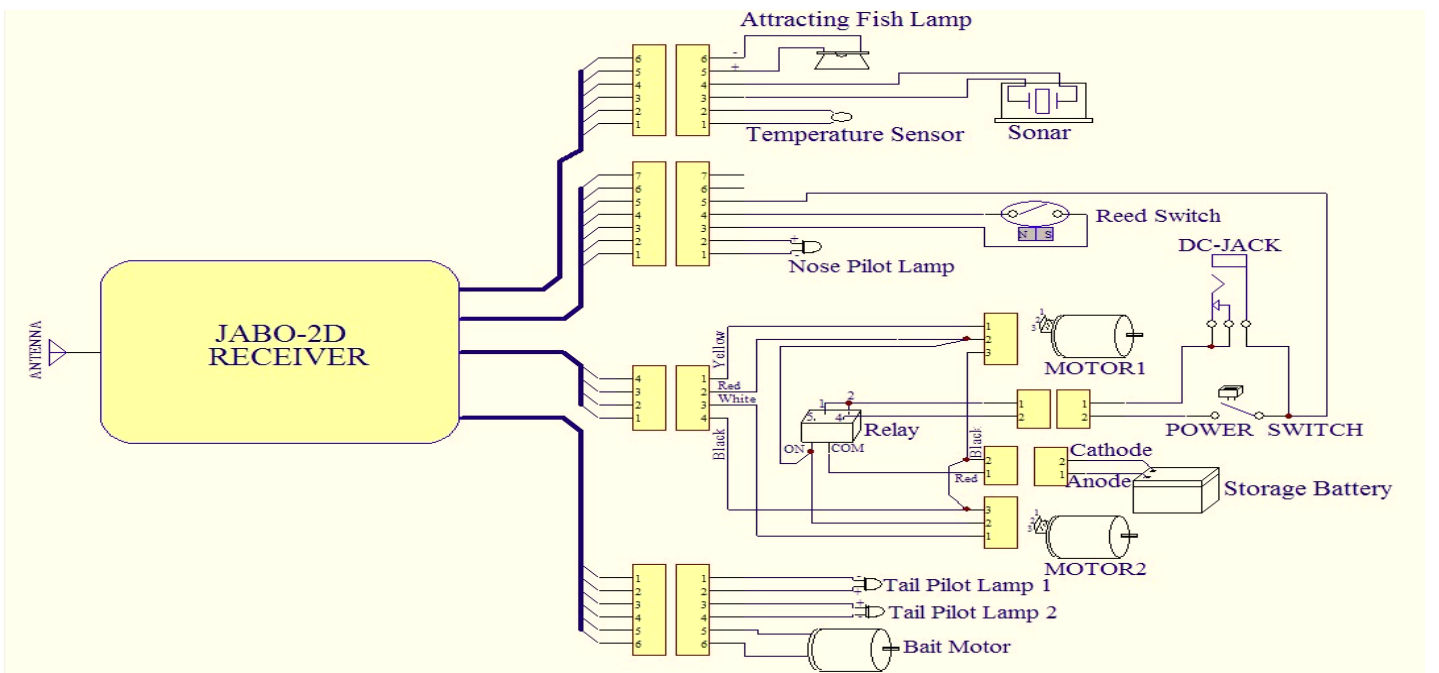
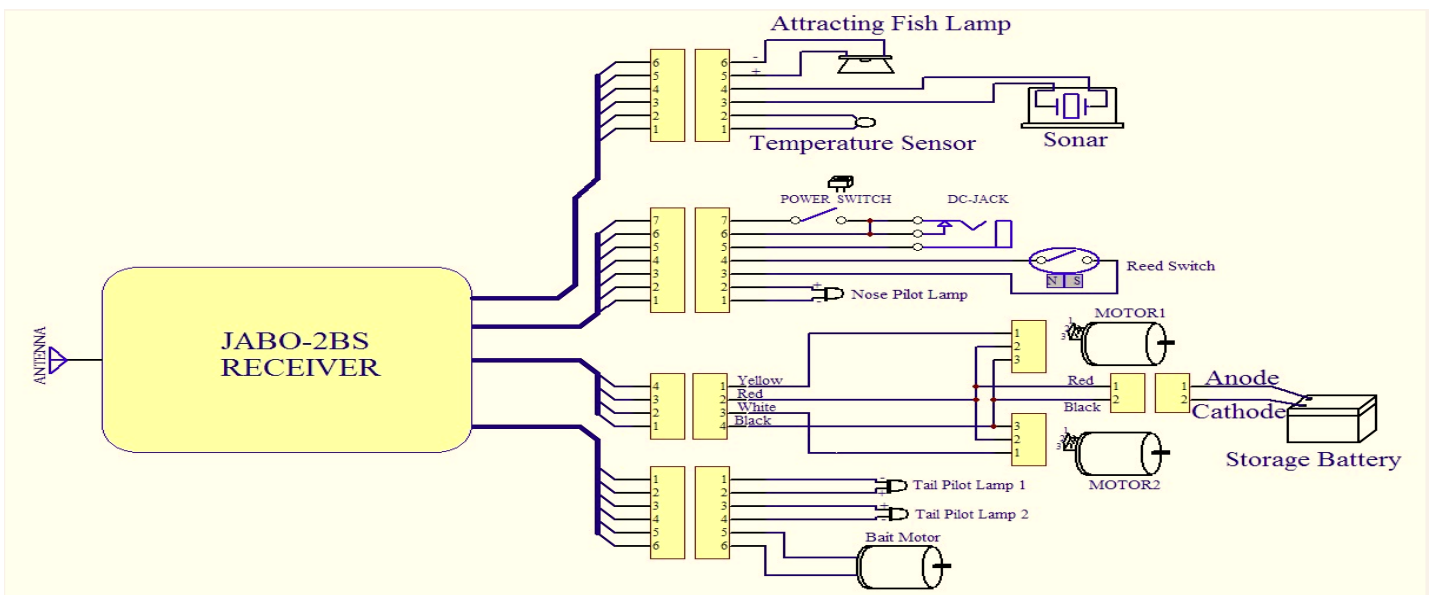
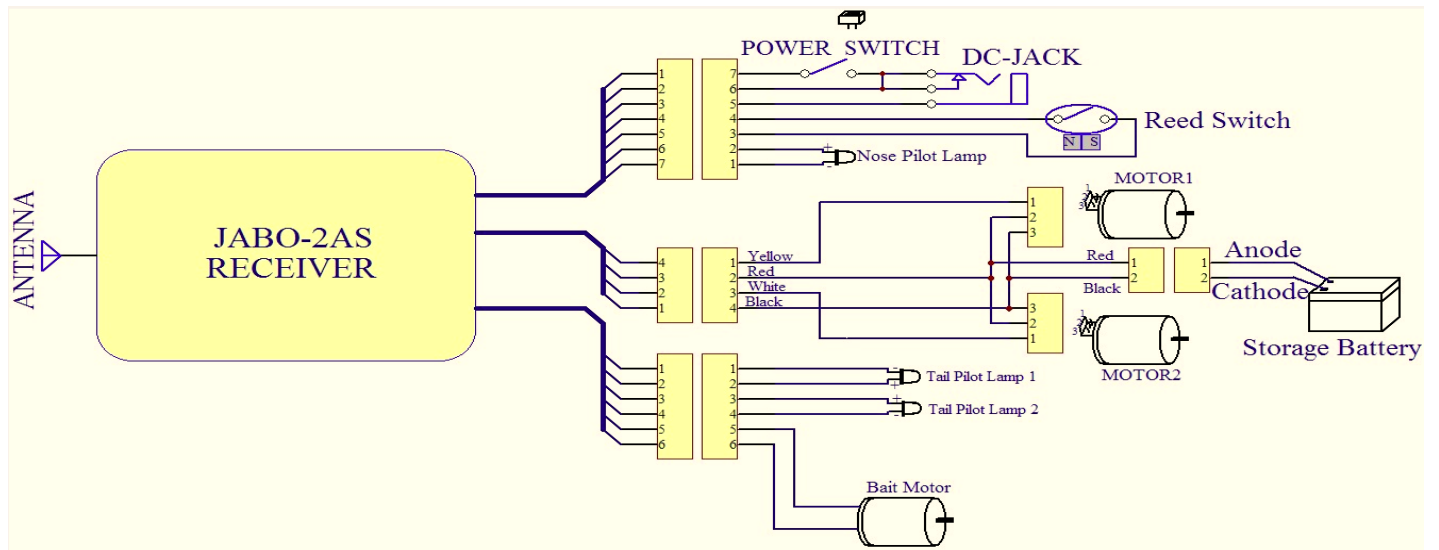
6. Open the waterproof cover, and press power switch. Then front light flickers.

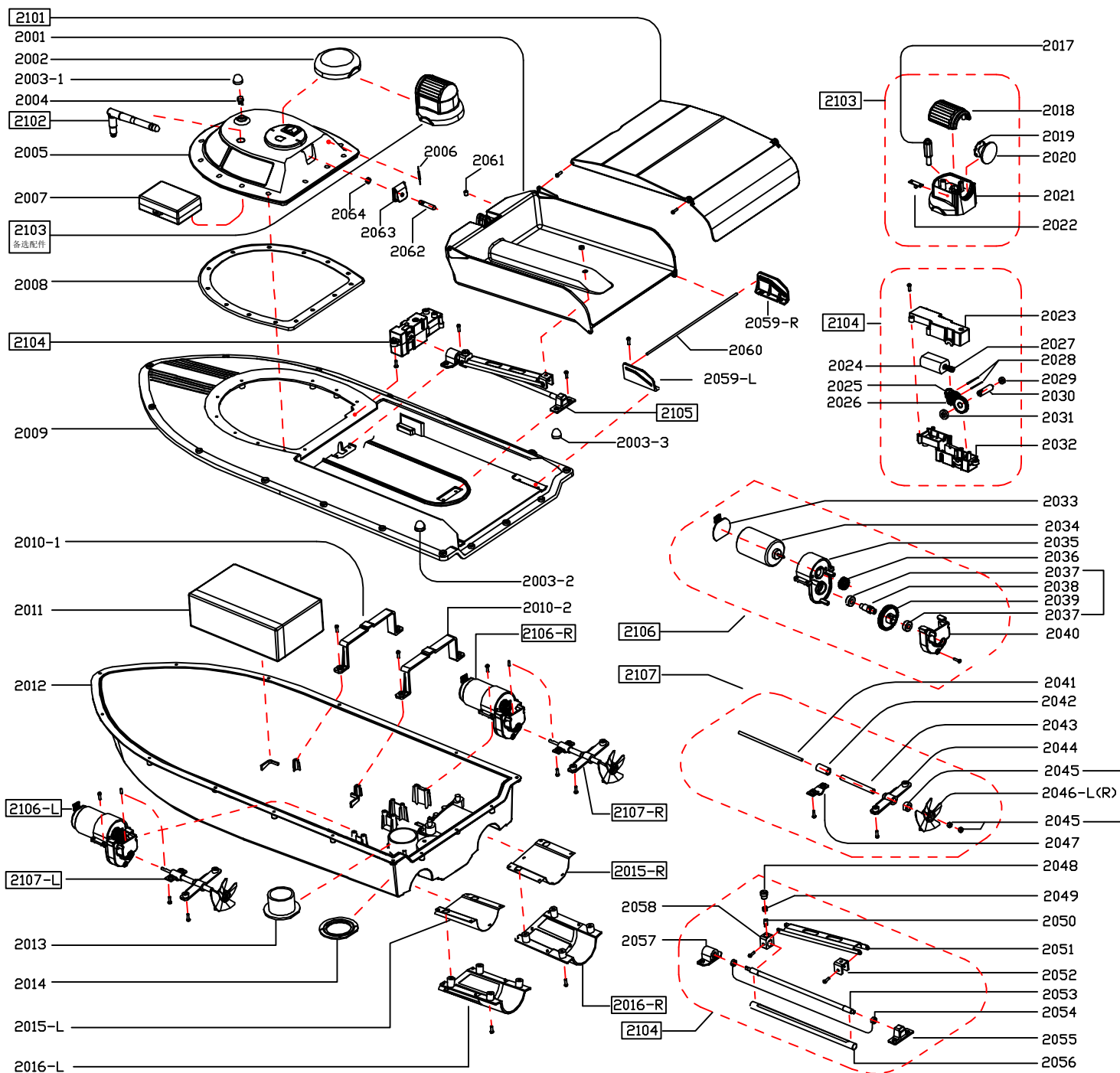


Make a lasso at a proper place of the fishing line, then insert it through the two half-ring washers which are at the front tipping bucket. Hang it over at the fixed pillar. Lay down the tipping bucket and pull the lasso fastened.

Motion Instruction

 		 		 								 	
													
2AS	2BS 2 D	2AS	2BS 2 D	2AS	2BS 2 D	2AS	2BS	2 D	2AS	2BS	2 D	2 D	
Turning Left		Forward		Turning Right		Stop			Releasing Hook			Backward	





序号	名 称	数量	材料
2001	skip bucket	1	
2002	waterproof cover	1	
2003	light shade	3	
2004	LED	3	
2005	cabin cover	1	
2006	transmitter	1	
2007	receiver	1	
2008	cabin cover seal	1	
2009	boat cover	1	
2010	battery fixed device	2	
2011	battery	1	
2012	boat bottom	1	
2013	sonar sensor	1	
2014	fish-tempting	1	
2015	filter net	2	
2016	protect shade	2	
2017	night light plug	1	
2018	night light cover	1	

序号	名 称	数量	材料
2019	night light LED	1	
2020	spotlight shade	1	
2021	night light base	1	
2022	night light switch	1	
2023	skip bucket gear cover	1	
2024	skip bucket motor	1	
2025	reduction gear 1	1	
2026	reduction gear 2	1	
2027	motor lever	1	
2028	gear shaft	2	
2029	output gear rear shaft	1	
2030	output shaft	1	
2031	output gear front shaft	1	
2032	skip bucket bottom	1	
2033	driving motor board	2	
2034	driving motor	2	
2035	driving gearbox	2	
2036	driving motor gear	2	

序号	名 称	数量	材料
2037	driving gearbox shaft	4	
2038	gearbox output shaft	2	
2039	gearbox output gear	2	
2040	driving gearbox cover	2	
2041	propeller output shaft	2	
2042	shaft fixed sleeve	2	
2043	output shaft sleeve	2	
2044	2043 rear pressure plate	2	
2045	propeller fixed screw	6	
2046	propeller	2	
2047	2043 front pressure plate	2	
2048	slider nut	1	
2049	slider spring	1	
2050	slider fork	1	
2051	skip bucket rod	1	
2052	connecting rod support	1	
2053	skip bucket driving screw	1	
2054	screw support bearing	2	

序号	名 称	数量	材料
2055	screw rear support	1	
2056	screw sleeve	1	
2057	screw front support	1	
2058	slider	1	
2059	support shaft skid	2	
2060	skip bucket support shaft	1	
2061	skip bucket phase magnet	1	
2062	hang line device	1	
2063	hang line device base	1	
2064	hang line device nut	1	
2100	skip bucket cover	1	
2102	antennae	1	
2103	night light part	1	
2104	skip bucket motor gearbox	1	
2105	skip bucket driving part	1	
2106	driving motor part	2	
2107	propeller part	2	