Quick Intro:

Tim Grimmett

Topic of Discussion

Wireless Motorized Livescope Pole/Mount

What and Why

Over the last few years, Forward Facing Sonar (FFS) has certainly been the topic of discussion.

In speaking with most, these are the typical questions or conversations that come up first.

Which brand?

What unit fits my needs?

What battery do I need?

What type wiring do I need?

What type of unit mounts do I need?

Where should I mount my unit?

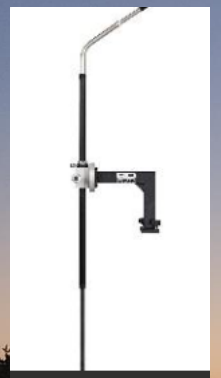
Where and how should I mount my transducer?

That last question is what has brought me here.

I have lost sleep over this people.

So Many Options, where to start?

Hand Steering Options



Beatdown Outdoors...

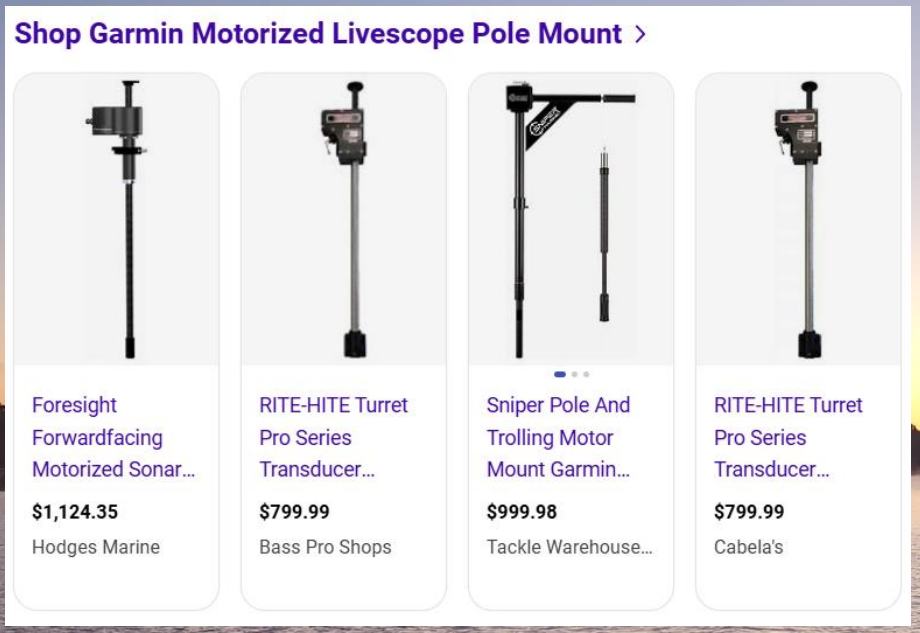
$549.99

FishUSA

★★★★★ 9

Motorized Options

Shop Garmin Motorized Livescope Pole Mount ›



Foresight Forwardfacing Motorized Sonar...

$1,124.35

Hodges Marine

RITE-HITE Turret Pro Series Transducer...

$799.99

Bass Pro Shops

Sniper Pole And Trolling Motor Mount Garmin...

$999.98

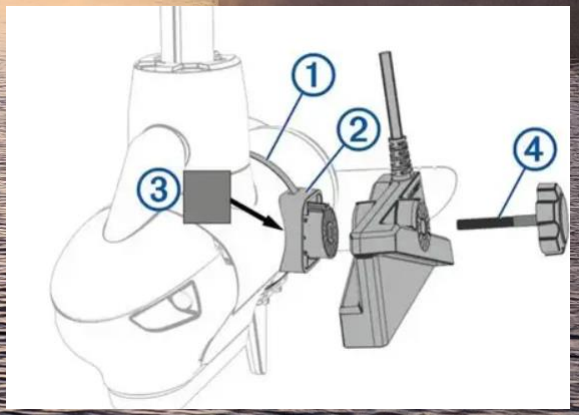
Tackle Warehouse...

RITE-HITE Turret Pro Series Transducer...

$799.99

Cabela's

Trolling Motor Shaft Options



$39.99

Garmin 0-Degree Pole Mount For Livescope Plus LVS34...

Bass Pro Shops

★★★★★ 1

What I felt like I needed for my fishing needs and the issues.

Control the Livescope transducer from anywhere within my boat.

At certain times, I do like to crappie fish as well as jig for stripers.
This puts me in the front of my boat.
No issues. By a manual hand steer mount.

At certain times, I do like to live bait fish.
This means I do like to have my transducer deployed when I am looking for fish running 2-3 MPH. Can't move my transducer while I am driving the boat with a hand steer type mount up front.

Mount it to the trolling motor. You can control that anywhere on the boat.
This is true, however you lose the ability to stay on target when you spotlock. A slight wind can bring on a frustration like no other.
Field of view moves with trolling motor.

My Personal Setup prior to this build.

Solution: Wireless Motorized Livescope Pole

Tim’s Wallet

RITE-HITE Turret Pro Series Transducer Mounting Pole...

$799.99

Bass Pro Shops

★★★☆☆ (14)

Free by 11/20

Cornfield Live Sweep with Wireless Pedal | Tour Pro; 45 in. |...

$1,198.99

FishUSA

Free by 11/10

60-day returns

Foresight Forward-Facing Motorized Sonar Mount [1003...

$1,081.99

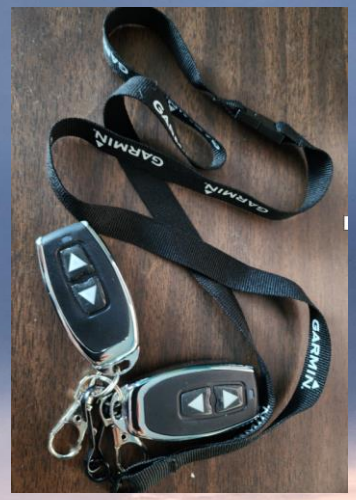
MyGreenOutdoors

Free

30-day returns

Let me introduce you to the Mallard 3000

Runs on 12v. Controlled by a wireless two button remote. Control from anywhere on my boat. Independent of my trolling motor. Allows me to spotlock while controlling the direction of my transducer. Steady enough to allow me to troll and look for fish without concerns. Quick and easy deploy.



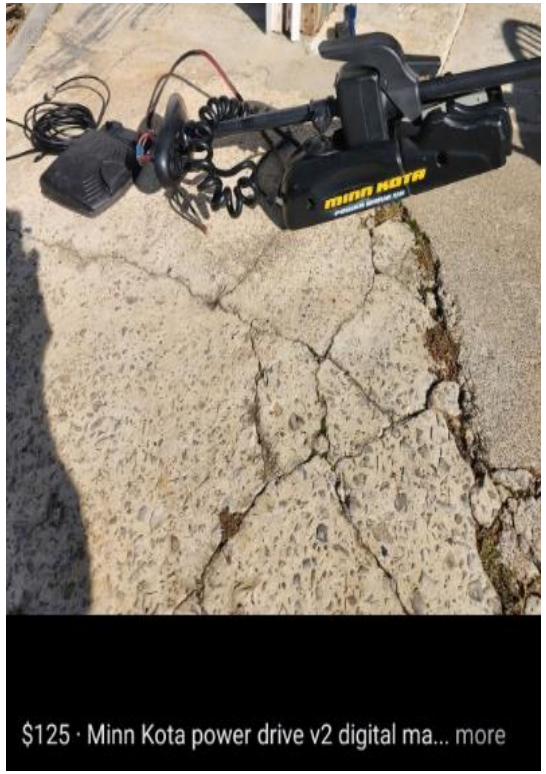
Two Options to start this project:

Buy all the parts and Build from scratch or Buy a Used Unit and use that as a start.

I personally found a Minn Kota PowerDrive on Facebook Marketplace and purchased it for $25.

Buying a used unit is a great way to get pretty much everything you are going to need except for the control module and the misc hardware listed in the next slide. Buying a donor motor will cost you less.

Currently on Facebook Marketplace.



Itemized list of parts if buying new.

An estimate price of $275 for new parts.

- Minn Kota PowerDrive Extrusion Base 2301936 $50
- Minn Kota Steering Motor 2771826 $95
- Minn Kota 52” trolling motor shaft 2032068 $45
- Minn Kota Trolling Motor PowerDrive Depth Collar $10
- Minn Kota PowerDrive Pivot Pad and Pin Kit $ 14
- Minn Kota PowerDrive Latch Collar $12
- Wirelss Control Module (Amazon) DC 8V 12V 24V 36V Motor Remote Control Switch for Control Linear Actuator, 433Mhz 10A Motor Forward Reverse Relay Switch （Momentary Mode） $15
- 0 Degree Livescope pole mount (Amazon - 0 Degree Pole Mount Accessories Fit for LiveScope Plus LVS34 & LiveScope Plus System Replaces 010-13228-03 0101322803) $23
- Misc items from Hardware Store listed below.

cotter pins

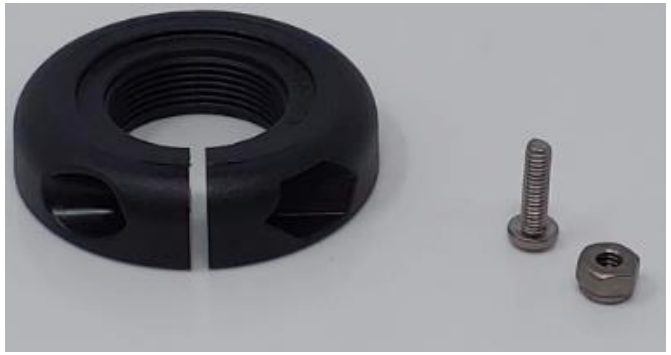
two stainless bolts 3/8inx5in. Get locking nylon nuts to go with them.

one small stainless bolt for latch release

1in CPVC 90degree elbow (CPVC fits down on the trolling motor shaft good and snug)

1/2 pvc female adapter with raised groves on outside (not cpvc)

1/2 pvc pipe 6 inches (not cpvc)



DC 8V 12V 24V 36V Motor Remote Control Switch for Control Linear Actuator, 433Mhz 10A Motor Forward Reverse Relay Switch (Momentary Mode)

Brand: fushionsea

4.1 ★★★★☆ (65)

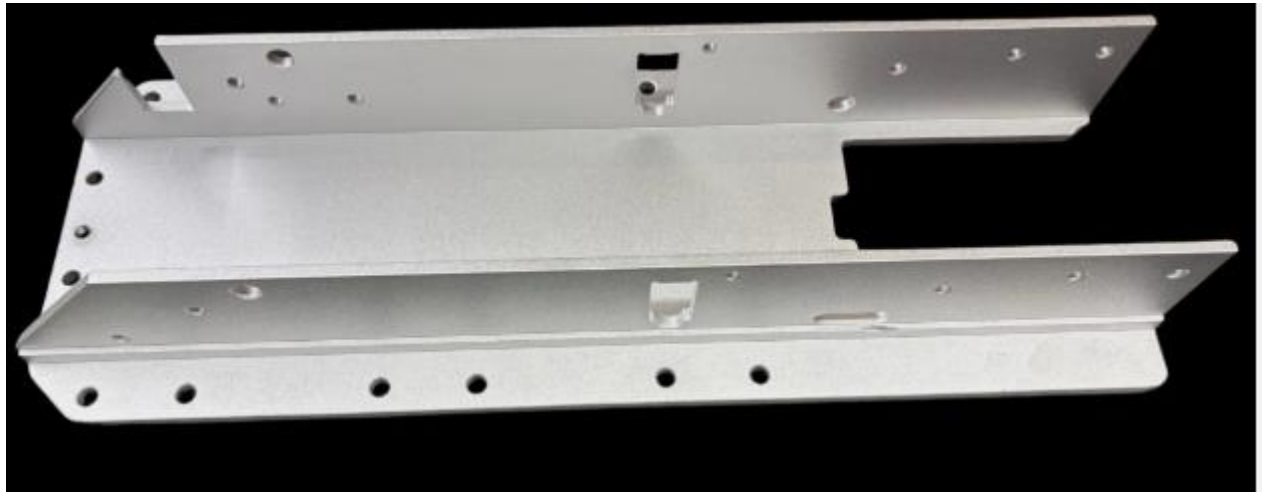
Amazon's Choice

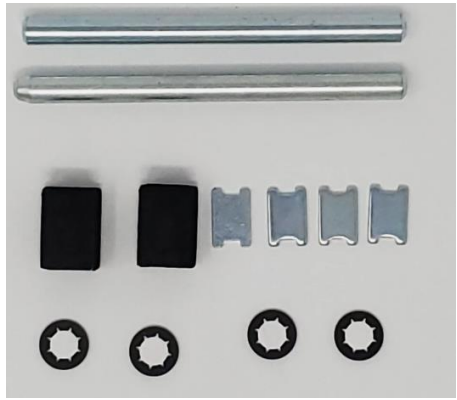
100+ bought in past month

$15.99

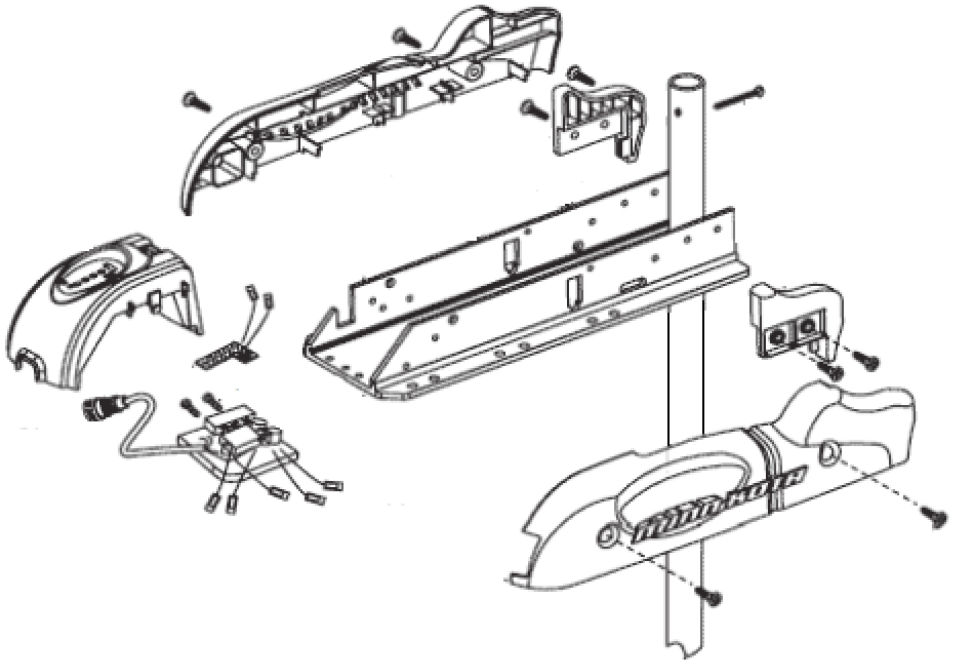
FREE Returns

Thank you for being an Amazon customer. Get $50 off: Pay $0.00 ~~$15.99~~ upon

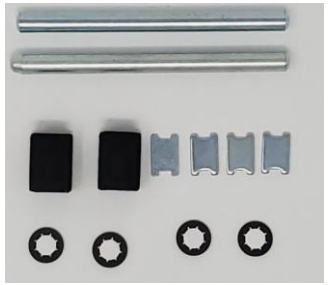




Quick look into Teardown and Build Process when using donor motor. Start stripping parts. I personally stripped mine all the way down to the base so I could paint etc.



The Pins on the right are what hold the motor into the base. They have the lock washers as pictured below. To remove the pivot pins you have to damage those lock washers. Therefore, I went back with stainless bolts. You can order the Minn Kota Pivot Pad and Pin kit as pictured if you prefer to go back with pins. However, you still need some way of locking the motor back. This could be done with a pin and carter key or bolt and wing nut.

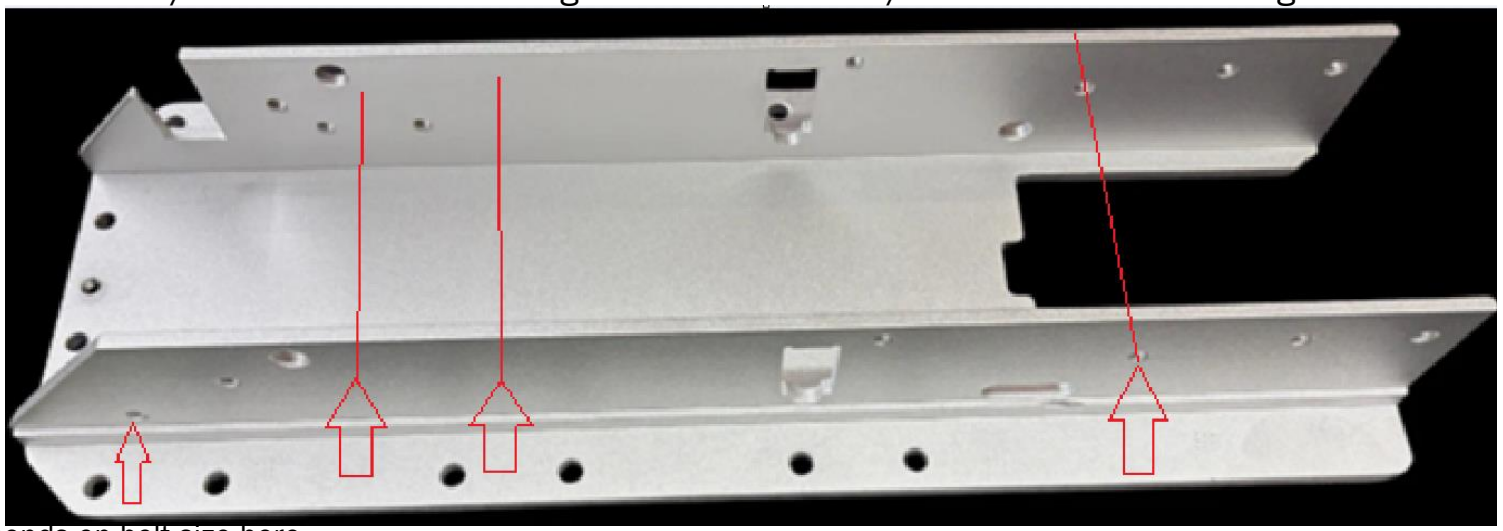


I drilled out the hole in front of the motor and used one of the pins with a carter pin through it on both sides to hold the motor in stored position.

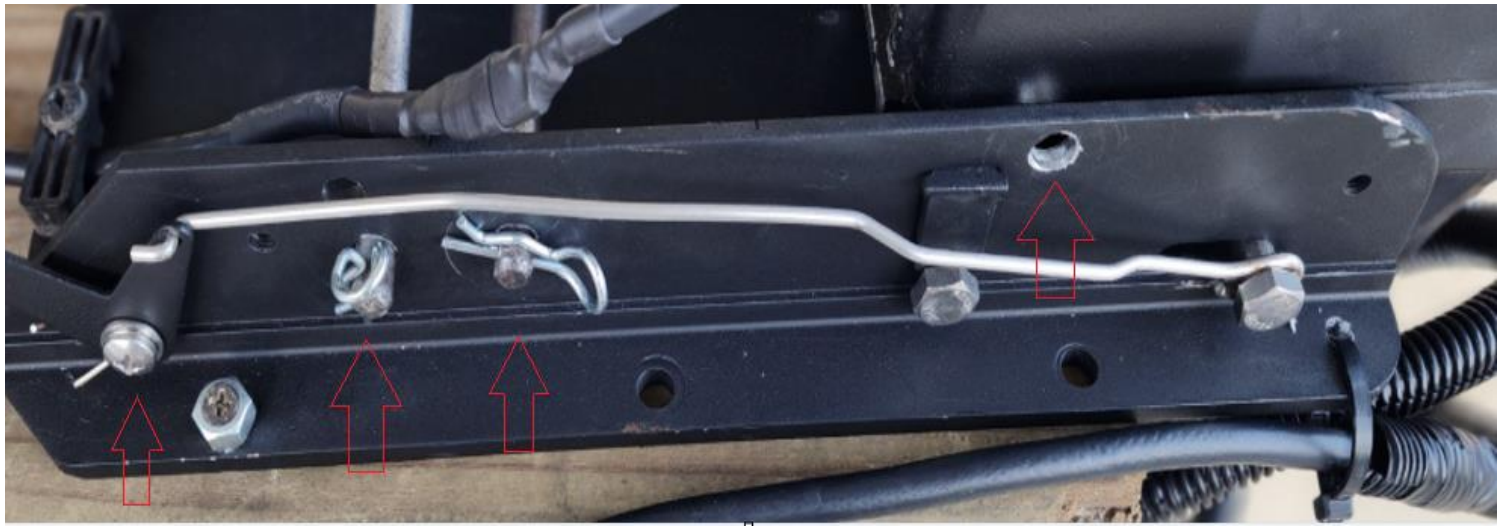
Two extra holes in the back. One to store the lock pin once the motor is deployed and the other for when I lose the first one in the water.

3/8in both sides and straight

3/8in both sides and straight



Depends on bolt size here.



Pictured below is the FDI (Fish Direction Indicator).

Parts List

1in CPVC 90degree elbow (CPVC fits down on the trolling motor shaft good and snug)
1/2 pvc female adapter with raised groves on outside (not cpvc). This slides in the 1in CPVC elbow.
1/2 pvc pipe 6 inches (not cpvc)

Wiring Diagram. Very Simple. Purchased from Amazon. Wire color going to trolling motor does not matter. Trolling Motor Steering motor only has two wires.

DC 8V 12V 24V 36V Motor Remote Control Switch for Control Linear Actuator, 433Mhz 10A Motor Forward Reverse Relay Switch (Momentary Mode)

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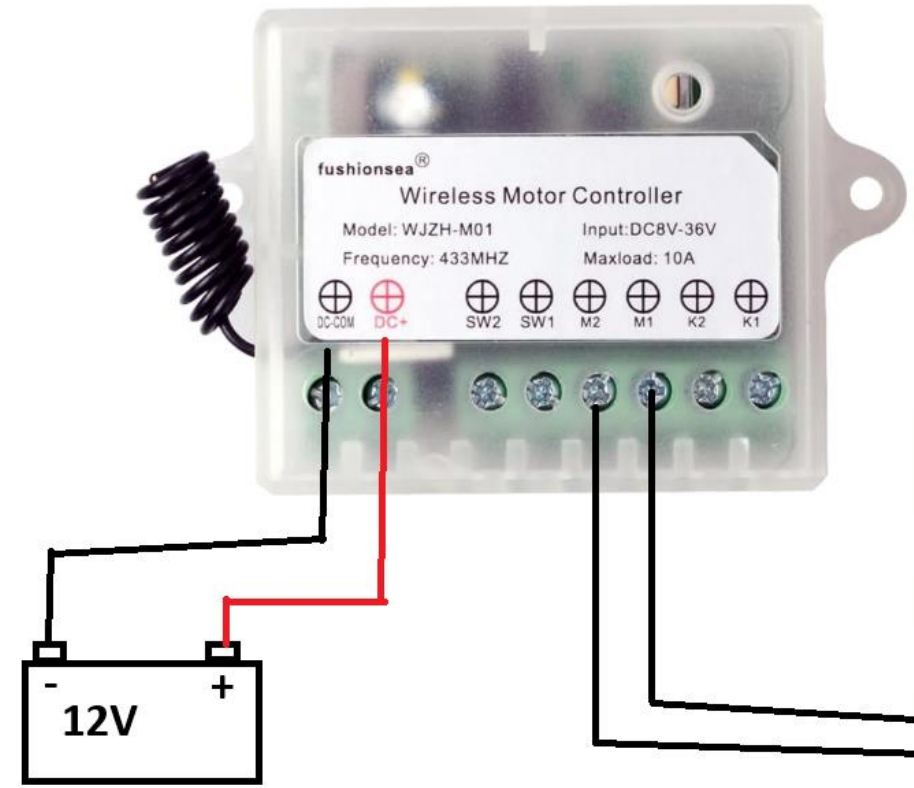


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