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the Canadian market
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governing electrical safety
are in Canada included in

WILSON

**INSTALLATION
AND
OPERATIONS MANUAL**

RAISE YOUR PERFORMANCE™

US PATENT #

8,267,025 B2, 9,598,159 B2, 9,403,587 B2, 8,627,779 B2

INTRODUCTION

Thank you for your purchase of the most innovative and user-friendly Jack Plate on the market. In this manual, you will find step-by-step installation instructions as well as maintenance tips and some basic troubleshooting steps, in the unlikely event of a failure. Please read through all of the information carefully before beginning your installation. If you have any questions, please feel free to contact our technical service department at 1-800-466-7697.

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Elevate Your Boating Experience!

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All Magnum Jack Plates have multiple mounting holes that adjust the height at which the Jack Plate is mounted on your transom. There is no exact way to determine which height to use, as factors such as model, engine size, gear placement, and passenger count, can all affect performance. You may need to raise or lower the position of the plate to achieve maximum performance.

ATTENTION!

*Failure to follow the installation steps **WILL VOID** any and all warranty.*

INSTALLATION STEPS

Tools Required

- *Motor Lifting Ring*
- *Motor Crane*
- *Phillips Screwdriver*
- *3/8" Wrench*
- *3/4" Socket*
- *Torque Wrench*
- *3/8" Allen Wrench*
- *Silicone Sealant*
- *Marine-grade Grease*

If New Holes are Needed

- *1/2" Drill Bit*
- *Hammer and Punch*
- *Drill*

STEP 1

Remove your outboard. If you have never done this before, it is highly recommended that you have a professional take care of this. If you are doing it yourself, make sure you have the proper lifting ring for your motor.



STEP 2

Check the condition of your transom and repair any cracks, dry rot, etc. Fill any unused holes with silicone sealant. Be sure to clean away any excess sealant so your Jack Plate has a flush surface to mount against.



STEP 3

*Determine if you need to drill any holes. Your Jack Plate was shipped with a mounting template. Our bolt-hole pattern is the most commonly used pattern by manufacturers for “bolt-on” type motors, so it is very likely you can use your existing motor holes. For maximum strength and security, it is **STRONGLY** suggested that you use this pattern.*

*If you do need to drill new holes, use the provided template to mark their location. To do this, tape the provided template in place on your transom and mark the hole locations using a hammer and punch. You will then use a drill with a 1/2” drill bit to drill the holes.
Note: You may want to drill a pilot hole first.*

IMPORTANT: The actuator unit on the Jack Plate is mounted slightly off-center. Therefore, it MUST NOT be used as a center point for mounting. Use only the supplied template.

STEP 4

Apply a generous bead of silicone sealant around the area on the transom that the Jack Plate will mount against.



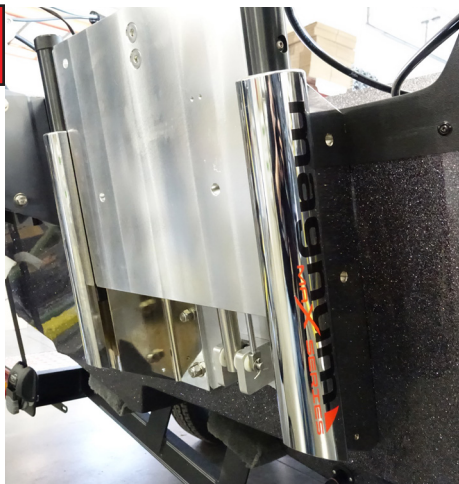
STEP 5

Apply a small amount of grease to the threads on each bolt to prevent galling.



STEP 6

Attach the Jack Plate to your transom using the supplied 1/2" bolts, washers, and lock nuts.



STEP 7

Torque the bolts to the proper torque specifications which can be found in the owner's manual for your boat.



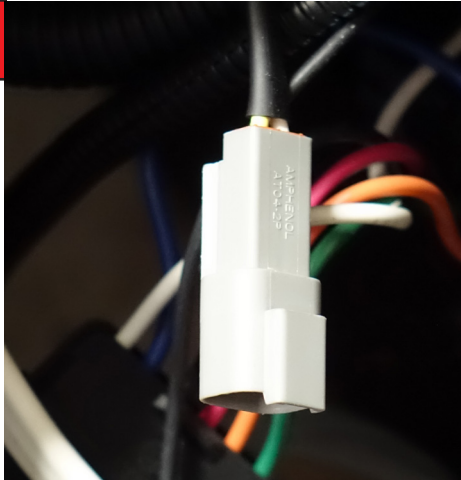
STEP 8

Using the supplied self-tapping screws, mount the relay control module near the desired battery where the power leads can reach. The control module is water-resistant but cannot be submerged, so find a location which will allow the module to stay as dry as possible.



STEP 9

Route the actuator lead to the relay control module.



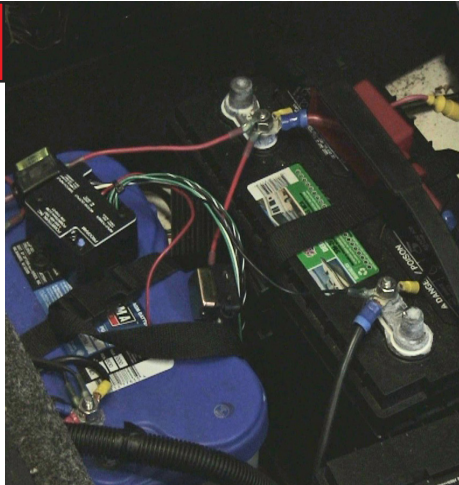
STEP 10

Mount your two-button control switch wherever you would like it and route the switch cable back to the relay control module. Connect the switch cable and actuator cable to the control module. Ensure that you line up the locking pieces on the connectors and that they are fully connected.



STEP 11

Connect the relay control module to your battery.



STEP 12

Line up your outboard motor mounting holes with the mounting holes on the Jack Plate. Place the 1/2" mounting bolts with a washer through the motor mounting plate and Jack Plate.



STEP 13

Install the free end of the safety strap on the bottom-right motor mounting bolt. Install the included washers and locking nuts onto the bolts.



STEP 14

Refer to your owner's manual for proper torque specifications. **NOTE:** They may be different from the ones used in Step 7.



STEP 15

Check and re-tighten (if necessary) all mounting bolts.

It is highly recommended you check the bolts again after one hour of use.



ACTUATOR REMOVAL

If it becomes necessary to remove the actuator, either for repair or replacement, **YOU MUST** follow these steps very carefully to avoid damage to your jack plate, outboard, or boat.

STEP 1

Raise the Jack Plate all the way up.

STEP 2

Disconnect the actuator lead from the relay control module and route the cable back out so it is free from the boat.

STEP 3

Secure the weight of the outboard motor with an engine crane. **DO NOT** put pressure on the motor, simply support the weight. You will need the proper motor lifting ring for your motor.

STEP 5

Start with the bracket on the motor lift plate. Use a pliers to bend the cotter pin straight and remove it from the clevis pin.

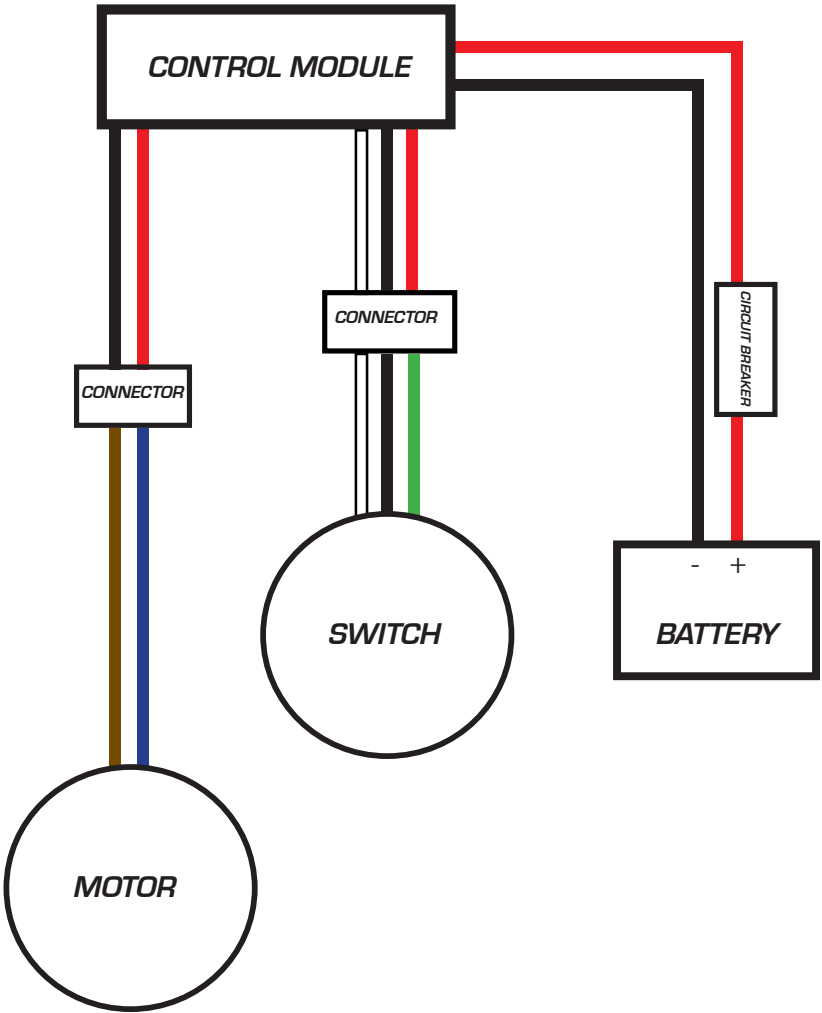
STEP 6

Remove the clevis pin from the actuator and bracket by sliding it out. You may need a hammer and punch to get it going.

STEP 7

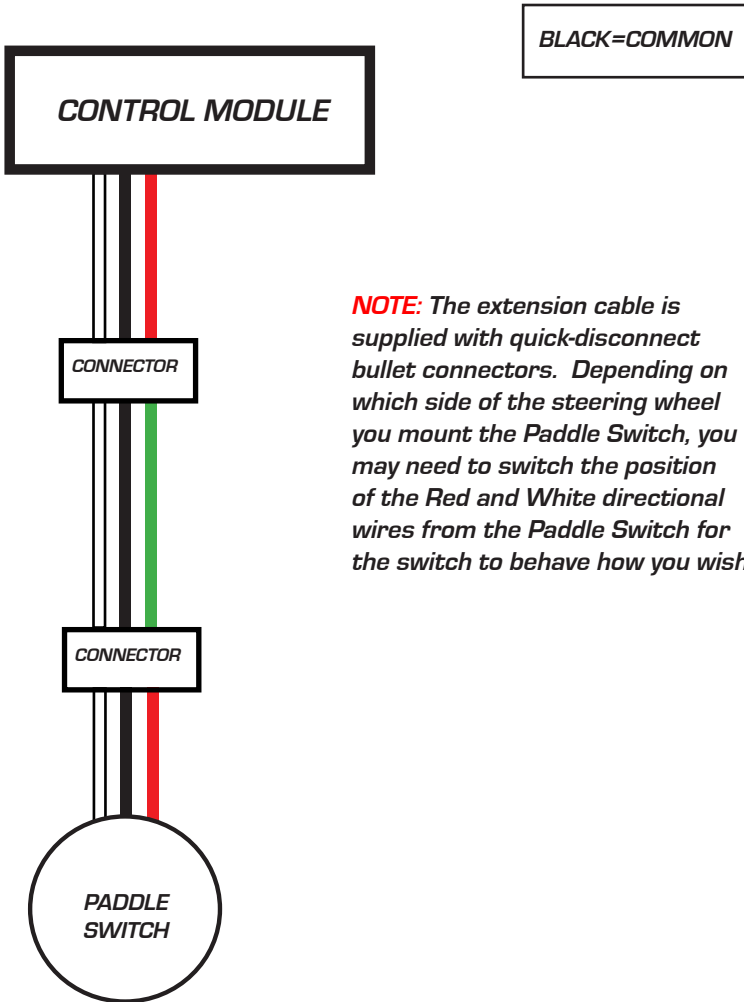
Repeat Steps 5 & 6 for the bracket on the transom mounting plate. Make sure you are holding onto the actuator so it does not fall.

WIRING DIAGRAM



WIRING DIAGRAM

PADDLE SWITCH (OPTIONAL)



NOTE: The extension cable is supplied with quick-disconnect bullet connectors. Depending on which side of the steering wheel you mount the Paddle Switch, you may need to switch the position of the Red and White directional wires from the Paddle Switch for the switch to behave how you wish.

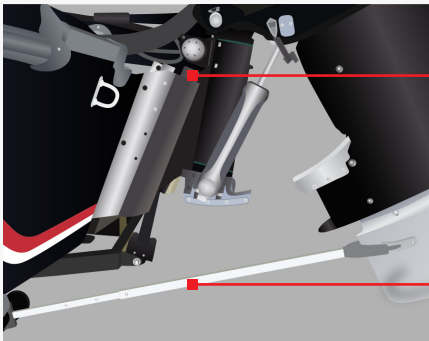
CARE AND MAINTENANCE

As with any accessory, proper care will help maximize the performance and life of your Jack Plate.

GENERAL CARE

- *After using your boat, open the battery compartment to allow any trapped moisture or fumes to escape. This will not only help extend the life of your relay control module but batteries and other accessories as well.*
- *It is a good idea to check the bolts on your Jack Plate and motor every so often to ensure they are still tightened to factory torque specifications.*
- *If you are running in saltwater, it is a good idea to spray the frame, plate, actuator, and fasteners with freshwater after every trip to help prevent corrosion.*
- *Also, if you are running in saltwater, it is **HIGHLY** recommended you install an anode on your Jack Plate.*

TRAILERING



*The Jack Plate should always be in the down position when trailering. **NEVER** fully extended!*

*The use of a transom saver is **HIGHLY** recommended to reduce stress on the Jack Plate and the boat itself.*

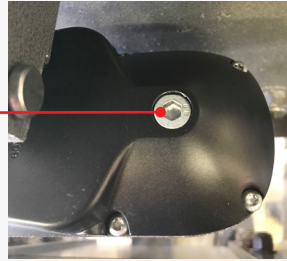
TROUBLESHOOTING

ISSUE	POTENTIAL CAUSE	SOLUTION
<i>Jack Plate won't move or moves intermittently</i>	<i>Battery is dead or weak</i>	<i>Check condition of battery using the steps below. Charge or replace battery as necessary.</i>
	<i>Circuit breaker tripped</i>	<i>Reset the circuit breaker by pressing the small black button on the side.</i>
	<i>Electrical connection is loose</i>	<i>Check and re-tighten all electrical connectors.</i>

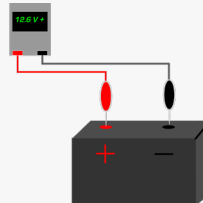
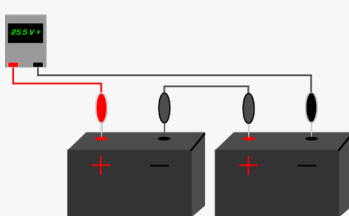
If the problem persists, please call our technical service line at 1-800-466-7697.

MANUAL OVERRIDE

In the event you lose power to the Jack Plate, it can be manually overridden to continue use and return safely to shore. Simply use a 6MM allen Wrench to remove the cover screw on the top of the actuator. Then use the same 6MM allen wrench to turn the manual override inside.



BATTERY TESTING



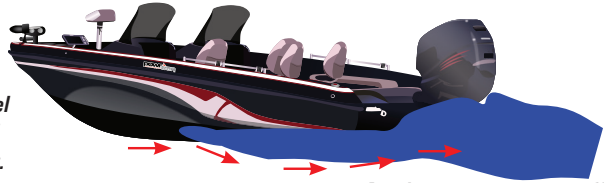
24V POWER-
25.5V or More

12V POWER-
12.6V or More

PERFORMANCE TIPS

To understand how a Jack Plate helps your performance, you must first understand how your boat affects the water around it.

As your boat pushes through the water, the water level is being compressed underneath the boat.

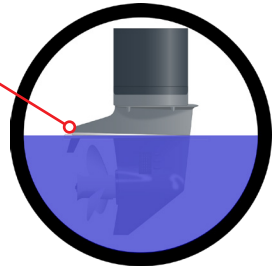


As the water comes off the transom, it rises to return to its static level.

SO WHAT DOES THAT MEAN?

To reduce drag and get maximum performance out of your motor, the cavitation plate should always be positioned right at the water level. This allows the rising water to put pressure on the cavitation plate, forcing the nose of the boat down and allowing you to plane out faster. The faster you are going, the higher your boat is in the water column, so your motor will need to be lowered to keep the cavitation plate in the optimum position.

CAVITATION PLATE



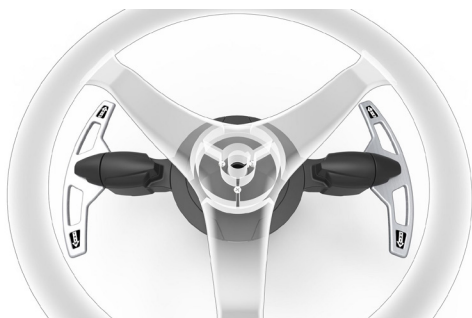
SETBACK

Another advantage a Jack Plate offers is the addition of setback. Setback refers to moving the position of the outboard motor further back from the transom. This allows the propeller to run in cleaner, less-aerated water, where it can get more bite and increase efficiency.

HOW DO I USE MY JACK PLATE?

A Jack Plate is designed to adjust to all conditions but no two boats are exactly alike. Differences in the way the boat is rigged, motor size, hull-design, boat length, water conditions, weight of gear, weight of passengers, and even weather, can affect how your boat behaves. Therefore, there is no universal procedure to follow when running your plate. That being said, a good place to start is to have the motor raised up when taking off and slowly tucking it back down as you accelerate and plane out.

PADDLE SWITCH



Every MAGNUM and MAGNUM MAX Jack Plate comes standard with a two-button switch control. Our wheel-mounted Paddle Switch is an optional upgrade which allows you to keep your hands on the wheel and operate your Jack Plate.

Available in SINGLE



or DUAL configurations



In addition to Jack Plates, the Paddle Switch can be used to control virtually anything on your boat; motor trim, shallow-water anchors, trim tabs, kicker motor steering, etc.

WARRANTY

It is Customer's responsibility to make a careful inspection of the Product for evidence of loss or damage, both apparent and concealed. For loss or damage by motor freight, freight forwarders, railway express, rail or air shipments, secure a notation of any loss or damage on Customer's copy and on the carrier's copy of the delivery receipt, retain products and shipping containers, and call carrier immediately for an inspection and file a claim with the carrier.

To the extent that this order is covered by a prior written contract between the parties, it is accepted on the terms and conditions in that contract and the terms and conditions expressed herein are not intended to modify, change, or supersede such prior contract. To the extent that this order is not covered by such a contract, this instrument contains all of the terms and conditions with respect to the sale and purchase of the Products named herein. Manufacturer can change its applicable terms and conditions at any time unless otherwise explicitly stated on the face hereof or in an effective prior written contract. No modifications of these terms and conditions shall be of any force unless such modification shall be in writing and signed by the party claimed to be bound thereby. If any of the provisions of Customer's purchase order or other writings are in conflict with the terms and conditions of this document, the terms and conditions of this document shall govern. This sales agreement is not assignable or transferable by Customer, in whole or in part, except with the written consent of Manufacturer.

Manufacturer's liability as to delivery ceases upon making delivery of the Products purchased hereunder to carrier at shipping point in good condition. Title and risk of loss for the Products supplied hereunder will pass at the F.O.B. point specified in Manufacturer's applicable published price schedule for all Products shipped by Manufacturer. Title and risk of loss for all Products picked up by Customer at Manufacturer's designated shipping locations will pass to Customer at the point the Products are deposited by Manufacturer onto Customer's owned or leased equipment.

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WARRANTY

This warranty shall not apply to Products that have been repaired or altered by anyone other than Manufacturer. This Warranty shall not apply to any Products subject to misuse due to common negligence or accident, or any product which has been improperly installed.

Any oral statement concerning the Products inconsistent with this warranty shall be of no force or effect. The only warranties concerning the Products are made in writing by Manufacturer. The Customer may not rely upon any statement or representation concerning the Product made by any other person.

Customer shall examine any such Products for any damage, defect, or shortage. All claims for any cause whatsoever (whether such cause be based on contract, breach of warranty, negligence, strict liability, other tort, or otherwise) shall be deemed waived unless made in writing and received by Manufacturer within thirty days after Customer's receipt of such Products or before such Products are used, whichever shall occur first, or if such claim is for non-delivery of such Products, within thirty days after the date upon which such Products were to be delivered; provided that as to such claim not reasonably discoverable within such thirty-day period (including such claims discoverable only in processing, further manufacture, other use, or resale), such claim shall be made in writing and received by Manufacturer within 180 days after Customer's receipt of the Products. Failure of Manufacturer to receive written notice of any such claim within the applicable time period shall be deemed an absolute and unconditional waiver by Customer of such claim irrespective of whether the facts giving rise to such claim shall have been discovered or whether processing, further manufacture, other use, or other resale of the Products shall have taken place. Products sold under this Agreement shall not be returned without Manufacturer's permission and transportation charges for return shall not be paid by Manufacturer unless authorized in advance.

It is expressly understood that any technical advice furnished by Manufacturer with reference to the use of its Products is given gratis and Manufacturer assumes no obligation or liability for the advice given or results obtained. All such advice is given and accepted at Customer's risk.

The agreements between the Manufacturer and Customer were made and entered into by the parties in the State of Minnesota. In the event a dispute arises, said dispute shall be settled in the District Court, Stearns County, Minnesota. The agreement between Manufacturer and Customer shall be construed and interpreted according to the laws of the State of Minnesota.

ABOUT POWRTRAN INC

Powrtran has been providing the marine industry with high-quality performance accessories for over 30 years. Our growing portfolio of brands remains dedicated to providing electromechanical alternatives to existing market products as well as an eco-friendly approach to new ideas. We are steadfast in our commitment to continuous innovation achieved through an active social ear and constantly inquisitive minds. As fishermen and boaters ourselves, we strive to create products that enhance the user's experience on the water while fostering the love of fishing and conservationism in the next generation.



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