# **PVG Owners/Service Manual Production Standards**

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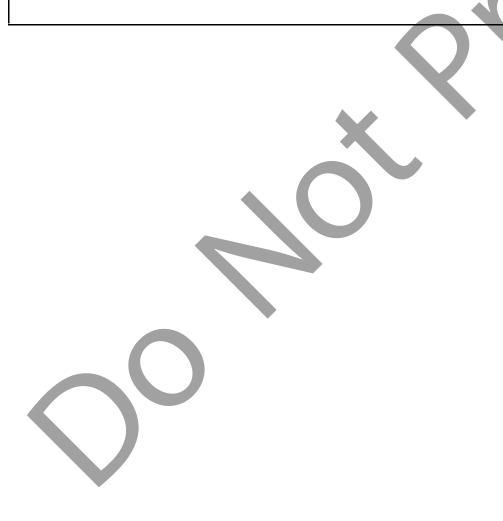
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DIRECT-REPLACEMENT INSTALLATION AND SET-UP GUIDE

POLARIS TURBO R & PRO S QSE-LINKS (2022-ON)

# TURBO R & PRO S QSE-LINK

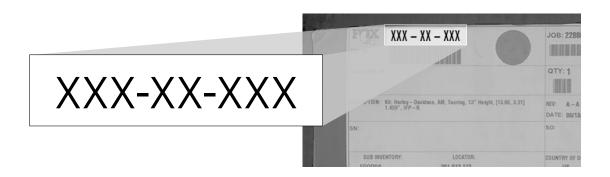
885-08-532 - Kit: QSE-Links, Polaris AM 2024 Pro R, Front 885-08-541 - Kit: QSE-Links, Polaris AM 2024 Turbo R and PRO S, Rear



FOX products are subject to continuous development and improvement. To find the most up to date product information such as color installation manuals, videos, and FAQs please visit:

#### http://ridefox.com/manuals

To locate the correct installation manual, use the 8-digit part number found on the end of the packaging box (see illustration below):



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## INTRODUCTION

Thank you for choosing FOX QSE-Links for your vehicle. FOX products are designed, tested, and manufactured by the finest professionals in the industry.

Please read the entire manual before attempting to install the QSE-Links on your vehicle. If you have any questions call the FOX service center at 831.740.4619.

FOX recommends that you become completely familiar with the handling characteristics of your adjusted vehicle before operating it under rigorous conditions, helping to avoid potential loss of control events. FOX further recommends that you use appropriate protective equipment at all times when operating your vehicle.

To achieve the best performance and product longevity, periodic service and maintenance is required. Please refer to the MAINTENANCE section for more information.

#### **A**WARNING

### **SAFETY INSTRUCTIONS**

- FOX QSE-Links are designed to fit and allow proper clearance with the stock components. If aftermarket components are installed, it is the customer's responsibility to ensure that interference between the FOX products and other vehicle components does not occur at any point in the shock stroke.
- FOX QSE-Links should always be installed as a set for maximum performance.
- Proper installation and service procedures are essential for the safe and reliable operation of the suspension components, requiring the experience and tools specially designed for this purpose.
   Installation and maintenance procedures for this product must be performed by a qualified service technician, to avoid potentially unsafe vehicle handling characteristics, which may result in SERIOUS INJURY or DEATH.
- Adjusting your suspension will change the handling characteristics of your vehicle. Under certain
  conditions, your adjusted vehicle may be more susceptible to loss of control, which can result in
  SERIOUS INJURY or DEATH. Thoroughly familiarize yourself with the adjusted vehicle handling
  characteristics before any rigorous vehicle operation. Wear protective body gear and a helmet when
  appropriate.
- Any attempt to misuse, misapply, modify, or tamper with any FOX product voids any warranty and may result in SERIOUS INJURY or DEATH.

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#### **A**WARNING

### **INSTALLATION GUIDELINES**

- DO NOT install any FOX product without the necessary special tools and expertise or you will subject yourself to the risk of SERIOUS INJURY or DEATH. Ensure that the vehicle is: (1) on level ground, (2) that the wheel not in use during installation is supported to prevent unsafe movement of the vehicle, (3) and that adequately secured stabilizer straps are used to support the vehicle while it is elevated. NEVER work on the vehicle until you have checked to ensure that the vehicle will be stable during installation.
- FOX QSE-Links are designed to fit your vehicle without cutting any structure on the vehicle.

#### **TOOLS REQUIRED**

- Gloves
- Safety glasses
- Vehicle manufacturer's workshop manual for torque specifications
- Ratchet and assorted sockets or wrenches sized appropriately to your mounting hardware
- Torque wrench
- 18 mm socket or 18 mm wrench
- 10 mm socket
- T40 Torx bit
- Zip ties

Required tools and supplies may change over time. Visit ridefox.com or contact a representative for the most up-to-date details.

## FRONT LINK INSTALLATION

The passenger side link is shown. Repeat the following procedure for the opposite side, too.

- Remove the existing stock link. With the vehicle on the ground, use an 18 mm socket and an 18 mm wrench to remove the hardware on each side of the stock end link (Fig. 1-2). Remove the end link.
- 2. Use a paint pen to mark the spline and arm orientation. Use an 18 mm socket or wrench to remove the bolt from the sway bar arm. Then remove the arm (Fig. 3).



Fig. 1: Remove stock end link.

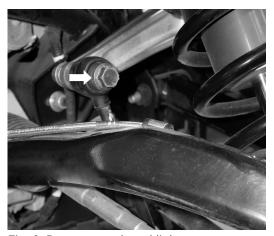


Fig. 2: Remove stock end link.



Fig. 3: Mark the spline and arm orientation.

- 3. Flip the sway bar arm so the bend in the arm now the arm bends inward toward the vehicle (Fig. 4).
- 4. To reinstall the sway bar arm, you'll need a friend. Have your friend apply pressure to the driver side spline. Press the arm back on to the spline and push the bolt through the arm (Fig. 5).
- 5. Install the new FOX Pro R QSE link with the reservoir on the link facing the interior of the vehicle. Start at the upper mount, and make sure to use the aftermarket nut included with the kit. Use a torque wrench and an 18 mm socket to torque the hardware to 54.23 N·m (40 ft-lb). (See Fig. 6.)

**NOTICE:** Make sure to use the 90 mm bolt and flanged locknut supplied with the kit when reinstalling at the upper mount.

6. Install the lower link mount OE hardware and torque to OE specifications (Fig. 7).

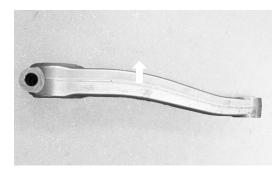


Fig. 4: Orient the bend in the arm toward the vehicle.



Fig. 5: Push the bolt through the arm.



Fig. 6: Tighten the hardware on the upper end link (white arrow). Reservoir faces inward (orange arrow).



Fig. 7: Tighten the hardware on the lower end link.

## FRONT WIRING INSTALLATION

- 1. Open the center console (Fig. 8) and remove the liner (Fig. 9).
- 2. Remove one of the pulse bar plugs and install the FOX 3-pin pulse bar connector on the power harness (Fig. 10).



Fig. 8: Open the center console.



Fig. 9: Remove the center console liner.



Fig. 10: Install the FOX 3-pin connector.

- 3. Remove an accessory switch cover on the dash by hand (Fig. 11).
- 4. Take a photo of where the wires attach to the back of the switch (Fig. 12), then unplug the wires.
- 5. Route the wires through the accessory switch (Fig. 13) and plug the switch into the wiring (Fig. 14).



Fig. 11: Remove accessory switch cover.

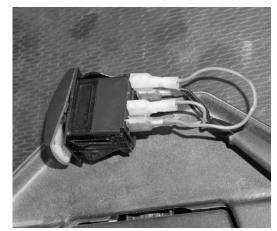


Fig. 12: Take a photo of the switch wiring.



Fig. 13: Route the wiring through accessory switch.

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- 6. Push the switch into the dash until it clicks into place (Fig. 15).
- 7. If you're installing both a front and rear kit, perform the steps in this section for each kit.



Fig. 14: Plug the switch into the wiring.



Fig. 15: Push the switch into the dash.

## **FRONT KIT WIRING**

- 1. Route wires for the front link kit through the grommet hole in the fire wall (Fig. 16-17).
- 2. Run the shorter wire to the passenger side of the vehicle (Fig. 17).
- 3. Plug the wire into the link and fasten the wire to the link with a cable tie (Fig. 17).
- 4. Fasten the loose wire to the frame with another cable tie. Droop the front of the vehicle out or make sure the wire has clearance when the suspension cycles (Fig. 18).

**NOTICE:** Make sure to leave sufficient slack in the cable for the suspension articulation. Failure to do so could result in damage to the wire harness.



Fig. 16: Route wiring through grommet hole.

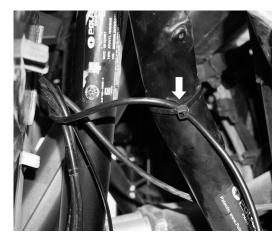


Fig. 17: Shorter wire to passenger side.



Fig. 18: Clearance during suspension movement.

- 5. Route the wire on the driver-side link through the loop above the upper control arm on the passenger side of the vehicle (Fig. 18-21).
- 6. Fasten the wire with a cable tie to the bulkhead (Fig. 22).



Fig. 19: Wire routing above upper control arm.



Fig. 20: Wire routing above upper control



Fig. 21: Wire routing above upper control arm.

- 7. Pass the wire through the loop on the driver side (Fig. 23).
- 8. Fasten the wire with a cable tie to the brake line below the reservoir (Fig. 24)
- 9. Plug the wire into the link and fasten the wire to the link with a cable tie. Make sure the wire has clearance when the suspension cycles.

**NOTICE:** Make sure to leave sufficient slack in the cable for the suspension articulation. Failure to do so could result in damage to the wire harness.



Fig. 22: Wire cable tied to bulkhead.



Fig. 23: Wire routing through driver side loop.



Fig. 24: Wire cable tied to brake line below reservoir.

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### REAR LINK INSTALLATION

The driver side link is shown. Repeat the following procedure for the opposite (passenger) side, too.

- Remove the existing stock link. With the vehicle on the ground, use an 18 mm socket and an 18 mm wrench to remove the hardware on each side of the stock end link (Fig. 25). Remove the end link.
- 2. Install the new FOX Turbo R/Turbo S QSE link with the reservoir on the link facing the front of the vehicle (Fig. 26). Start at the upper mount, and make sure to use the aftermarket bolt and nut included with the kit. Use a torque wrench with an 18 mm socket to torque the hardware to OE Specification.
- 3. Install the lower link mount OE hardware and torque to OE specifications (Fig. 26).



Fig. 25: Remove the stock end link.



Fig. 26: Install the FOX QSE-Link and the lower link mount OE hardware.

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## **REAR WIRING INSTALLATION**

The rear harness kit will follow the main harness of the vehicle. It routes through the center console, through the firewall, and attaches to vehicle frame and sway bar (Fig. 27).

#### **PREPARATION**

- To improve installation access, remove the vehicle seats, center console, and firewall. First, use the lever located underneath the seat to tilt the seat forward, and lift the seat upward to remove.
- 2. With the seats removed, you can access the center console. Use a T40 Torx bit to remove (10) screws from the passenger side of the console (Fig. 28). Repeat for the driver side.



Fig. 27: Rear harness kit routing.

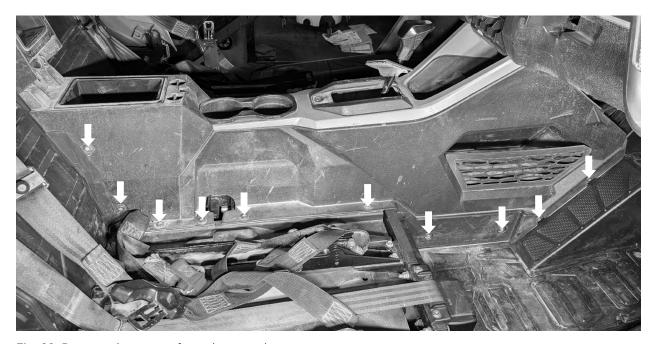


Fig. 28: Remove the screws from the console.

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3. Remove (2) automotive push retainers, and push out the LED light from the passenger side (Fig. 29). Then repeat for the driver side (Fig. 30).

**NOTE:** one of the push retainers on the driver side is hidden in the back of the panel.

4. Use a 10 mm socket to remove (2) bolts from the fuse box (Fig. 31).

NOTE: Remove the fuse box cover to ease removal of the fuse box bolts.

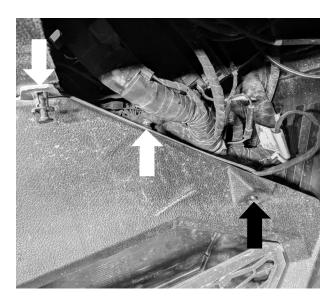


Fig. 29: Passenger side shown. Remove push retainers (white arrows) and LED light (black arrow).

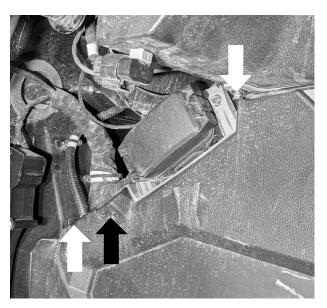


Fig. 30: Driver side shown. Remove push retainers (white arrows) and LED light (black arrow).



Fig. 31: Remove fuse box bolts.

- 5. Remove the rubber cover from the shifter (Fig. 33). Then use a T40 Torx bit to remove the center bolt (Fig. 32) and remove the plastic shifter cover.
- 6. Turn the (2) center console quick releases to disengage them (Fig. 32).
- 7. Remove the cup holders from the center console.
- 8. Remove the (2) automotive push retainers from each side of the console (Fig. 34).



Fig. 32: Remove center bolt (white arrow). Disengage quick release knobs (black arrows).

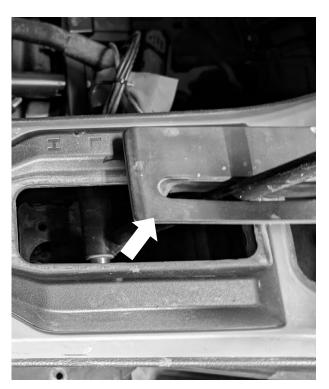


Fig. 33: Remove plastic cover from shifter.

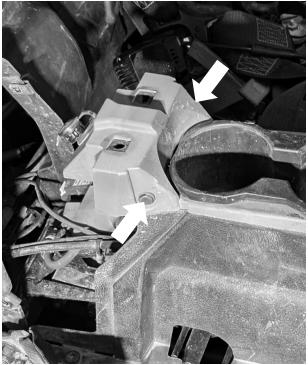


Fig. 34: Remove push retainers from console.

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- Be extremely careful as you remove the driver side panel from the center console (Fig. 35). Slowly bend the panel to disengage the retainint tabs. **DO NOT** break the retaining tabs.
  - **NOTICE:** This operation will requires patience while bending the panel by hand to disengage the retaining tabs. Be extremely careful that you **DO NOT** break or damage the tabs. If you doubt your ability, have a professional mechanic assist you with this operation to avoid property damage.
- 10. To remove the firewall, turn the (6) quick release knobs on both panels of the firewall to disengage them. (Fig. 36).

**NOTE:** Removing the firewall allows access for the next steps in the procedure.



Fig. 35: Remove the driver side panel from the center console.

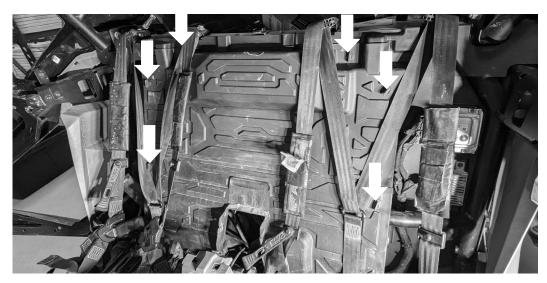


Fig. 36: Disengage the quick release knobs on the firewall.

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#### **WIRE HARNESS INSTALLATION**

1. Connect the rear harness to QSE Link (rear) switch previously installed (Fig. 37).

**NOTE:** Verify the harness is labeled "REAR" for this step.

2. Route the rear harness by following the main vehicle harness. Loosely secure the harness using zip ties spaced 10-12 inches apart (Fig. 38).

**NOTE:** At this stage **DO NOT** fully secure zip ties, and make sure to leave space to adjust the harness.



Fig. 37: Connect rear harness to rear QSE link.



Fig. 38: Loosely secure the rear harness.

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- 3. After following the Polaris main harness through the length of the vehicle, route the QSE Links harness upwards and attach it to the center of the frame with a loose zip tie.
  - Separate the left and right sections of the harness and loosely zip tie them to the frame (Fig. 39).
- 4. From the frame, route the harness to the sway bar and QSE Link, and loosely secure in place with zip ties (Fig. 40). Connect the harness to the QSE-Link connector. Repeat on the opposite side of the vehicle.

**NOTICE:** Make sure the harness is routed so it does not rub or get damaged/pinched against other areas of the vehicle.

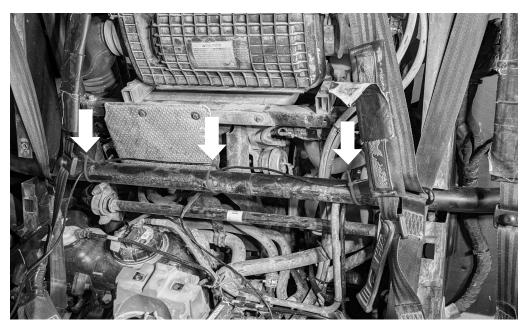


Fig. 39: Loosely zip tie left and right sections.



Fig. 40: Loosely zip tie harness to sway bar and QSE Link.

FOX

 With the harness routed on the vehicle, there may be excess wire in the harness. This is because the same harness can be fitted on vehicles of different size/length (i.e. 2 seat or 4 seat).

Pull the excess wire through the loosely secured zip ties and loop it. Then secure it to the main harness behind center console (Fig. 41).

**NOTICE:** Do not tension the harness, especially towards the rear of the vehicle. The sway bar is a component that moves during vehicle operation, so any excess tension might cause damage to the harness.

- 6. Fully secure all zip ties previously used to route the QSE-Link harness and cut the excess cable tie.
- Installation of rear wire harness is now complete. Follow the steps in the next section to reassemble the vehicle.



Fig. 41: Secure excess wire to main harness.

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#### **VEHICLE REASSEMBLY**

- Reinstall both panels of the firewall and turn the (6) guick release knobs to secure the firewall (Fig. 36).
- Be extremely careful as you reinstall the driver side panel on the center console (Fig. 35). Slowly bend the panel to re-engage the retaining tabs. **DO NOT** break the retaining tabs.

**NOTICE:** This operation will requires patience while bending the panel by hand to re-engage the retaining tabs. Be extremely careful that you **DO NOT** break or damage the tabs. If you doubt your ability, have a professional mechanic assist you with this operation to avoid property damage.

- Reinstall the (2) automotive push retainers from each side of the console (Fig. 34).
- 4. Reinstall the cup holders into the center console.
- 5. Secure the (2) center console quick release knobs (Fig. 32).
- 6. Reinstall the plastic cover on the shifter.
- Use a T40 Torx bit to reinstall the center bolt (Fig. 32). Reinstall the rubber cover from the shifter.
- Use a 10 mm socket to reinstall the (2) bolts on the fuse box (Fig. 31). Reinstall the fuse box cover.
- Reinstall the (2) automotive push retainers and LED light from the passenger (Fig. 29) and driver side (Fig. 30).
- 10. Use a T40 Torx bit to reinstall the (10) screws from the passenger and driver side of the console (Fig. 26).
- 11. Reinstall the seats.

#### **FINAL CHECK**

Be extremely careful and drive slowly to ensure everything is assembled correctly. It's always best to have a trained professional do the final check and make sure the vehicle is operating properly and safely.



### **MAINTENANCE**

PROPER INSPECTION AND MAINTENANCE IS ESSENTIAL TO MAINTAIN THE PERFORMANCE AND RELIABILITY OF YOUR FOX PRODUCTS.

Service your QSE Links every 2,000 miles.

**NOTICE:** Keep the FOX products clean and free of dirt or water to avoid corrosion. Avoid using a high-pressure washer.

#### **FOX SERVICE AND UPGRADES**

HAVE YOUR FOX PRODUCTS SERVICED OR UPGRADED BY FOX TECHNICIANS. CALL OUR SERVICE CENTER AT 831.740.4619 TO GO OVER THE SERVICE AND UPGRADE OPTIONS AVAILABLE FOR YOUR FOX PRODUCTS. ONCE YOU'VE SETUP YOUR SERVICE AND/OR UPGRADES, YOU WILL RECEIVE A RETURN AUTHORIZATION NUMBER AND SHIPPING INSTRUCTIONS.

#### **COMPLETE SERVICES**

Normal use: once per season Racing or extreme use: may require more frequent service

#### **SERVICE MENUS AND PRICING**

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### WARRANTY INFORMATION

#### **FOX LIMITED WARRANTY**

FOX Factory, Inc., a Georgia corporation having an office at 2055 Sugarloaf Circle Suite 300. Duluth, GA 30097 ("FOX"), makes the following LIMITED WARRANTY with respect to its suspension products: LIMITED ONE (1) YEAR WARRANTY ON SUSPENSION PRODUCTS.

Subject to the limitations, terms and conditions hereof, FOX warrants, to the original retail owner of each new FOX suspension product, that the FOX suspension product, when new, is free from defects in materials and workmanship. Unless otherwise required by law, this warranty expires one (1) year from the date of the original FOX suspension product retail purchase from an authorized FOX dealer or from a FOX authorized Original Equipment Manufacturer where FOX suspension is included as original equipment on a purchased vehicle. If law requires a warranty duration of greater than one (1) year, then, subject to the other provisions hereof, this warranty will expire at the end of the minimum warranty period required by such law.

#### **TERMS OF WARRANTY**

This warranty is conditioned on the FOX suspension product being operated under normal conditions and properly maintained as specified by FOX. This warranty is only applicable to FOX suspensions purchased new from an authorized FOX source and is made only to the original retail owner of the new FOX suspension product and is not transferable to subsequent owners. This warranty is void if the FOX suspension product is subjected to abuse, neglect, improper or unauthorized repair, improper or unauthorized service or maintenance, alteration, modification, accident or other abnormal, excessive, or improper use.

Should it be determined by FOX in its sole and final discretion, that a FOX suspension product is covered by this warranty, it will be repaired or replaced, by a comparable model, at FOX's sole option, which will be conclusive and binding. THIS IS THE EXCLUSIVE REMEDY UNDER THIS WARRANTY. ANY AND ALL OTHER REMEDIES AND DAMAGES THAT MAY OTHERWISE BE APPLICABLE ARE EXCLUDED, INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES OR PUNITIVE DAMAGES.

This limited warranty does not apply to normal wear and tear, malfunctions or failures that result from abuse, improper assembly, neglect, alteration, improper maintenance, crash, misuse or collision. This limited warranty gives the consumer specific legal rights. The consumer may also have other legal rights which vary from state to state or country to country. Some states and countries do not allow the exclusion or limitation of incidental or consequential damages or warranties, and if dictated by law the above limitations or exclusions may not apply to you. If it is determined by a court of competent jurisdiction that a certain provision of this limited warranty does not apply, such determination shall not affect any other provision of this limited warranty and all other provisions shall remain in full effect.

THIS IS THE ONLY WARRANTY MADE BY FOX ON ITS SUSPENSION PRODUCTS AND COMPONENTS, AND THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION HEREIN. ANY WARRANTIES THAT MAY OTHERWISE BE IMPLIED BY LAW INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXCLUDED.

# **CONTACT**

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