



***THUNDER***  
**SPORTS™**



**RNGRHARNES3  
INSTALLATION GUIDE**

## **IMPORTANT NOTICE**

If you have any questions regarding wire routing in a vehicle, please contact MTX Technical Support at 1-800-225-5689. When connecting power and ground wires ensure that the red power wire is fused at the point where it is connected to the vehicle's battery. Failure to do so can result in damage to the vehicle if a short circuit develops between the vehicle connection point and the product.

## **INTRODUCTION**

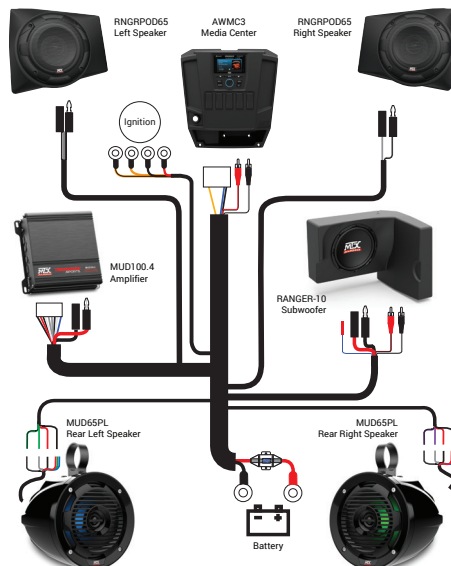
The MTX RNGRHARNES3 is designed to work with the MTX AWMC3 all-weather media controller, MUD100.4 amplifier, RNGRPOD65 speakers, MUD65P or MUD65PL RGB LED speaker pods, and RANGER-10 powered subwoofer in select Polaris RANGER® vehicles. The harness is designed to simplify installation of all of these parts for a complete audio system. These instructions are designed specifically for the RNGRHARNES3. See other part installation instructions for details on how to install them in their locations.

## **FITS THE FOLLOWING VEHICLES**

- RANGER® 500 (2014 - 2017)
- RANGER® 570 FULL-SIZE (2014 - 2018)
- RANGER XP® 900 (2014 - 2018)
- RANGER XP® 1000 EPS (2014 - 2017)
- RANGER XP® 1000 EPS HIGH LIFTER (2016 - 2017)
- RANGER® EV / EV LI-ION (N/A)
- RANGER® DIESEL (N/A)
- RANGER CREW® 570-6 (2014 - 2018)
- RANGER CREW® 570-4 (N/A)
- RANGER CREW® XP 1000 (2014 - 2017)
- RANGER CREW® XP 900 (2014 - 2018)
- RANGER CREW® DIESEL (N/A)

\* Will Not Fit RANGER XP® 1000 EPS (2018) or RANGER XP® 1000 EPS NS HVAC (2018)

## **RNGRHARNES3 SYSTEM LAYOUT**



## **INSTALLATION**

These instructions pertain to the RNGRHARNES3 wiring harness. Installation instructions for individual components including the AWMC3, MUD100.4, MUD65P, MUD65PL, RNGRPOD65, RANGER-10, and MUDRNGRDK are available with the products or online at [mtx.com](http://mtx.com).

The first step in installing the RNGRHARNES3 is to remove the hood, dash top, and center console from the RANGER. Once those pieces are removed, a large grommet located on the forward firewall can be seen that includes the factory wiring harness. After carefully making a small incision in the grommet feed the wires with the orange and black / orange ring terminals through the grommet to the under hood side. Feed the end of the RNGRHARNES3 with the black and red ring terminals and power and signal wires for the subwoofer (the "Y" end) down between the firewall and dashboard to the opening at the bottom of the dashboard where the center console would meet the dashboard.

Connect the orange and black / orange wires to the buss bar under the hood. If the vehicle is equipped with a Polaris accessory harness, follow the markings on the buss bar and connect the orange wire to "ACC" and the black / orange wire to "GND". If the vehicle is not equipped with a Polaris accessory harness, connect the orange wire to the same stud that the existing orange wire is connected to. Then remove one of the bolts that attaches the buss bar to the vehicle, this bolt is ground to chassis and will be used for the ground connection. Put the black / orange ring terminal through that bolt and reattach the buss bar to the vehicle.

The black and red ring terminals are designed to be connected to the vehicle's battery and the power and signal wires for the subwoofer need to be run to the driver's seat so both parts of the harness should be run down the center of the vehicle, following the vehicle's factory harness. Take care to keep it away from any moving parts. Once under the seat bench, the red and black wires need to be positioned to the left and fed into the battery compartment. The power and signal wires for the subwoofer need to be routed to the right and fed into the compartment under the driver's seat where the subwoofer is installed.

Next the harness can be connected to the AWMC3 using the large Molex style connector on the harness. It will mate to the rear of the AWMC3 and can only be connected one way. On the RNGRHARNES3 there is a single set of RCA male connectors that will be plugged into the female RCA input on the AWMC3 labeled "FRONT".

The second Molex style connector on the harness is designed for use with the MUD100.4 amplifier. Discard the female end of the harness on the MUD amplifier and connect the RNGRHARNES3 Molex connector directly into the male end on the amplifier. Next connect the male red power wire on the harness to the corresponding female plug on the amplifier harness. Then connect the black female plug on the harness to the red male plug on the amplifier.

There are five connections for the subwoofer (plus one small plug included with the subwoofer for the EBC) on the harness: power, ground, remote turn on, and male RCA's. Connect the RCA's from the harness into the female RCA inputs on the subwoofer's amplifier. Next connect the female red power wire on the harness to the corresponding male plug on the subwoofer's amplifier. Then connect the black male plug on the harness to the red female plug on the subwoofer's amplifier. Finally, strip a small piece from the end of the blue wire on the subwoofer amplifier harness. Using a crimping tool, put that stripped end of the wire into the female end of the butt connector connected to the harness at the subwoofer.

Connecting the speakers is the next step. The RNGRHARNES3 front channels are designed to be used with the RNGRPOD65 front speakers and have bullet style connections that are easy to connect. The white and white / black (positive and negative) wires can be connected to the front left side speaker. The all weather connections match the wire harness on the RNGRPOD65 and can be connected easily. The grey and grey / black (positive and negative) are for the front right speaker and can be connected in the same way.

The rear speaker wires are designed for use with the MTX MUD65P or MUD65PL RGB LED pod speakers, so both the left and right leads in the RNGRHARNES3 have both audio signal and power (for powering the LED in each speaker) wires. Use the following chart for proper wire connections.

Left Speaker Pod			Right Speaker Pod		
RNGRHARNES3	MUD65PL	MUD65P	RNGRHARNES3	MUD65PL	MUD65P
Green (+)	Grey (+)	Grey (+)	Purple (+)	Grey (+)	Grey (+)
Green / Black (-)	Black (-)	Black (-)	Purple / Black (-)	Black (-)	Black (-)
Red (+)	Black (+)	Yellow (+)	Red (+)	Black (+)	Yellow (+)
Black (-)	RGB (-)	Black (-)	Black (-)	RGB (-)	Black (-)

Splice and combine the MUD65PL ground wires to yeild a different color	
Red	Red
Green	Green
Blue	Blue
Red / Green	Lime Green
Red / Blue	Magenta
Green / Blue	Aquamarine
Red / Green / Blue	Blue-White

Since there are a variety of locations rear speakers can be mounted, these wires can be cut to match the length needed to reach the desired mounting location.

Finally, the power and ground wire can be connected to the battery. Connect the red wire power ring to the positive battery terminal and black ring terminal to the negative battery terminal. Turn machine to "ACC" or "ON" and power on the AWMC3 to ensure all speakers are working properly.

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Due to continual product development, all specifications are subject to change without notice.

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