2024+ Can-Am Maverick R

High Clearance Radius Rods #S3322, S3323, S3324

INSTALLATION INSTRUCTIONS

2024+ Can-Am Maverick R High Clearance Radius Rods

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PARTS LIST

ITEM	PART #	DESCRIPTION	QTY
		Upper Radius Rod	2
		Driver Middle Radius Rod	1
		Passenger Middle Radius Rod	1
		Driver Lower Radius Rod	1
		Passenger Lower Radius Rod	1
		Driver Double Shear Bracket	1
		Passenger Double Shear Bracket	1
		TRE Pin	2
		TRE Pin Cap	2
		TRE Pin Washer	2
		TRE Pin Nyock Nut	2
		Cotter Pin	2
		Adjuster Sleeve	2
		7/8” RH Heim	4
		7/8” RH Jam Nut	2
		7/8” LH Heim	2
		7/8” LH Jam Nut	2
		Heim Misalignment Spacer	8
		Uniball Misalignment Spacer	12

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	Uniball Mialignment Spacer O-Ring	12
	Adjuster Sleeve Socket Head Pinch Bolt M6 x 1.00 x 16mm	2
	Middle Rod Socket Head Pinch Bolt M8 x 1.25 x 40mm	4
	Middle Rod Pinch Bolt Flat Washer	4
	Middle Rod Pinch Bolt Nylock Nut	4
	TRE Pin Flange Head Bolt M8 x 1.25 x 25mm	2
	Double Shear Bracket Socket Head Bolts M6 x 1.00 x 25mm	6
	32.5mm Crow Foot Wrench	1
	36mm Crow Foot Wrench	1

1.) Place your Maverick R on flat ground and ensure machine is in park (P).
2.) Using a jack, raise your machine and place jack stands under the machine and make sure it is secure.
3.) Begin by removing the lug nuts using a 19mm socket and impact and set your wheels and tires to the side.
4.) Starting from the upper radius rods, remove the stock bolts holding the rods to the chassis using a 21mm socket and hand ratchet.
    a. Take Note: If you are using an impact, you risk breaking the nut loose on the back side that is tack welded to a small bracket. If this happens, it is very difficult to get the bracket out of the way for the new parts.
5.) Work your way down and remove the middle and lower radius rod bolts by hand. You may have to use a torch or heat gun to apply heat to melt the Loctite holding the nuts onto the bolts.
6.) After that you can remove your upper radius rods from the knuckles using a 21mm socket and wrench and place the rods to the side.
7.) Next, remove the cotter pin from the lower radius rods at the knuckles and remove the washer and nut using a 19mm socket and set the radius rods to the side.

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a. You may have to use a hammer and tap the knuckle to release the tie rod end from knuckle.

8.) At this point it is recommended to remove the wheel scrappers from the knuckle using a 10mm socket.

9.) Next, mark a ¼" back from the edge of the original pull plate and clearance it using a grinder or cutting tool.

10.) Using a 9/16" drill bit, drill out the middle radius rod tie rod hole on knuckle. This is for the new stud that is supplied with your kit.

11.) Now take your new middle rod TRE Pin and insert it into the 9/16" hole you just drilled and install the new washer and M14 nylock nut on the inside of the knuckle. Tighten to factory spec and insert your cotter pin on both studs.

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12.) Next, starting at the top, insert your misalignment spacers into the heim joints and install the upper radius rod into the chassis side first, and then the knuckle end.
    a. Pay close attention to the orientation of the rods. The upper rods are the same, so make sure you can read S3 on the rods from the rear of the machine.
13.) Now install the lower radius rods with their appropriate misalignment spacers paying close attention to their orientation as well.
14.) At this point we can install the middle radius rod on the chassis side first, and then sliding the other end onto the TRE pin.
15.) Next, we will secure the middle radius rod to the TRE pin by installing the TRE pin cap and using the supplied M8 bolt. Fasten to the TRE pin to factory specifications after applying Loctite to the threads.
16.) After that is done, we can install the double shear bracket to the knuckles. Begin by sliding the double shear bracket over the TRE pin and into place and secure using the supplied M6 x 25mm socket head bolts. Be sure to apply red Loctite to the threads to make sure they do not come loose. Fasten to factory specifications.
17.) Once these steps are completed, look over everything and make sure all hardware is tightened to factory torque specifications.
18.) Reinstall your wheels and tires and set your machine back on the ground.
19.) Last, we will set the alignment for your radius rods. Begin by taking a piece of string and secure it to the front of the machine and wrapping it around the whole machine, making sure to keep it tight and in the center of all four wheels.

20.) Next, stand a level up against your rear tire in the middle and using the upper radius rod, adjust it until the wheel and tire stands upright.

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21.) Then using the adjuster sleeve on the middle rod and the supplied crows foot, adjust your toe to your preferred alignment. We like to start with toeing the rear wheels in 1/16” off of the string wrapped around the machine. Then double check that your camber is where you want it using the level against your wheels and tires and adjust the upper radius rod until you are satisfied.
22.) Once you have the machine aligned you will need to take out the adjuster sleeve pinch bolt using a 5mm allen wrench and apply red loctite and reinstall to factory torque specifications.
23.) Next, apply red loctite to the two bolts on the ends of each middle radius rod and secure to factory torque specifications using a 6mm allen wrench and a 13mm wrench.
24.) Last, apply red loctite to the ends of your heims and tighten the jam nuts down to secure them using the appropriate supplied crows foot.
25.) Now, check over all hardware again to make sure everything is secure, and you are ready to enjoy your new radius rods.

Thank you for choosing S3 Power Sports. Let us know if you have any questions.