S3 powersports

Can-am Maverick X3 Clevis Tie Rods
Part # S3137-64 & S3137-72

INSTALLATION INSTRUCTIONS

Maverick X3 Clevis Tie Rods

PARTS LIST

ITEM	PART #	DESCRIPTION	QTY
	S3137	Tie Rod (1 LH, 1 RH)	2
	11178	Clevis	2
	S3SK-11178	Shim Kit	1
	11193	Steering Misalignment Spacer	4
	MXM-10	RH Heim Joint	2
	MXML-10	LH Heim Joint	2
	JNL58FZ	LH Jam Nut	2
	JN58FZ	RH Jam Nut	2
	BSH58134	5/8" Button Head Bolt	2
	NTE58	5/8" Nylock Nut	2

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INSTALLATION

1.) Place vehicle in park and elevate the front of the machine. Support with jack stands.
2.) Remove front wheels and tires.
3.) Loosen the inner jam nut of the tie rod.
4.) Remove the cotter pin on the tie rod end bolt closest to the hub. Loosen nut and remove nut and bolt from the outer tie rod end.
5.) Unscrew the tie rod off the inner tie rod joint.
6.) Unscrew the inner tie rod end joints. NOTE - the inner tie rod end joints have wrench flats but are difficult to access. It may be necessary to use a small pipe wrench or large channel locks to get the leverage needed. It also helps to apply heat to loosen factory thread locker.
7.) The next step will be critical. Screw the new clevis into rack with provided shim kit on the threads. The goal is to use a combination of shims to align clevis at the correct position that allows the heim joint to move freely throughout the suspension cycle. This step is different for each machine due to machining variances. This may involve a little trial and error but is key to tie rods functioning properly. Use red Loctite. The clevis needs to be at ~20-degree angle facing rear of the machine. See picture. It may be easier to use a pry bar or necessary tool to get enough leverage to turn it into position. Sufficient leverage may be required to achieve proper alignment. Try not to damage the clevis.
8.) Once the clevis is in position, install the 5/8" right handed heims and insert the large black bolts through the opening of the heim joint. The nut will be on the rack side and the bolt head will face front of the machine. Use red Loctite.
9.) Thread the RH jam nut down the threads of the heim.
10.)   Thread the tie rod onto the heim joints and then thread the left handed (LH) heims w/ jam nuts onto the tie rod. (There is a small line on the tie rods that notate LH threads)
11.)   Place the two misalignment spacers on top and bottom of the LH heims on the outer end of the tie rods.
12.)   Using the factory bolt, connect the rod to the knuckle. Tighten down the nut and bolt using red Loctite. Place the cotter pin back into the bolt, securing it into place.
13.)   Install wheels and tires.
14.)   An alignment will likely be needed.
15.)   Ensure the steering wheel is straight and at "center steer".
16.)   Using a long string, tie it around all 4 wheels and tires, making a large rectangle. Ensure it's tight and in the center of the wheels and tires.
17.)   Turn tie rod towards the front or rear of the machine to get the string to lay flat on both front tires on the forward and rear side walls. Recommended alignment is 1/8" toe out. Measure the distance between the string and the tire. (1/16th on each side) NOTE- keep checking the steering wheel as it deviate from center steer.
18.)   Once alignment is set, use red Loctite and tighten all jam nuts on tie rods. Ensure the heims travel freely and not binding. Check all hardware. Test drive. Recheck hardware.

Figure A

Can-am Maverick X3 Clevis Tie Rods
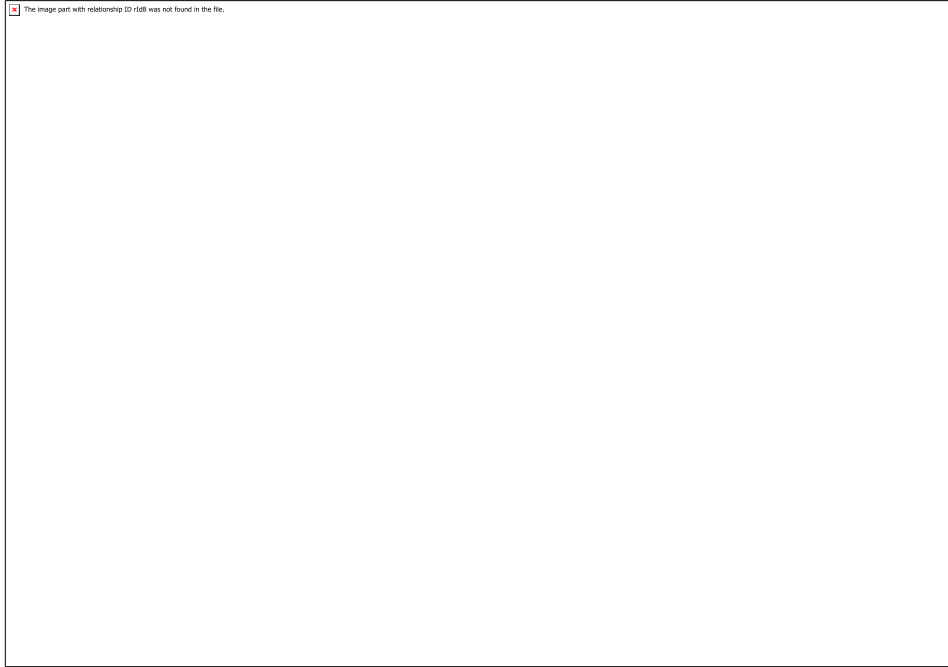Part # S3137-64 & S3137-72

Figure B