



XGEN®

**STS
4**



www.tjd.ca

Les Fabrications TJD.

© All rights reserved Les Fabrications TJD, Rivière-du-Loup, G5R 5X9. No copy or reproduction of this manual, in whole or in part is permitted without the explicit consent of Les Fabrications TJD.

Copyright © 2006 Les Fabrications TJD



TABLE OF CONTENTS

Introduction.....	2
Advice to Buyer.....	3
Safety Precautions	4
Installation.....	6
Use.....	7
Maintenance, Disassembly.....	8
Stabilisation Bar Installation Procedure.....	9
Hub Adaptor Installation Procedure.....	10
Part List and Exploded view.....	11
Stabilisation Rod Installation Procedure	15
ANNEX – Typical installation according to model of ATV.....	

TECHNICAL SUPPORT

In case of problem covered by your warranty that your local dealer cannot resolve, please contact our customer services at (418) 863-5885.

INTRODUCTION

Les Fabrications TJD thank you for choosing **TJD XGEN STS4** tracks, carefully designed to give you complete satisfaction.


Designed exclusively for 4-wheel-drive (4X4) ATVs, they are easily installed in about 45 minutes with no modifications to your ATV.


The **TJD XGEN STS4** tracks are the most advanced tracks in the world. With its unique suspension and its unparalleled maneuverability you get a smooth ride, as well as on tire. You will be able to push back your limit at unequalled levels safely. ATVs equipped with **TJD XGEN STS4** tracks can operate over a wider range of terrain and for a longer period of the year. **TJD XGEN STS4** tracks are designed to operate on all types of snowy and swampy terrain, sand, slush, mud and hard surfaces.



ADVICE TO BUYER

This owner's manual was carefully prepared to allow you to easily mount TJD XGEN STS4 tracks on your ATV and to manipulate them properly and safely, during their installation and while in use.

 Read this entire owner's manual. It will allow you to familiarize yourself with the safety recommendations and the procedures for mounting and correct use of the tracks; you are also advised to provide this information in its totality to all users of your ATV.


 Read the safety and operation recommendations in your ATV owner's manual. This safety information also applies to your ATV when equipped with tracks. Consult your local, provincial and national authorities about highway safety code regulations on the use of tracks. Also check with ATV clubs on the use of tracks on local trails.


NOTE: Verify whether your ATV manufacturer authorizes the installation of products other than their own on their ATVs.


When tracks are transferred (sold), give this manual to the new owner.

NOTE: All illustrations in this manual are provided for reference purposes and are based on the latest available information at the time of publication.

NOTE: The illustrations, specifications, and information contained in this manual are subject to change without notice.


 In this owner's manual this symbol indicates important safety information. When you see this symbol, carefully read all that follows to avoid the possibility of serious or fatal injury.


 In this owner's manual, this symbol indicates that improper use can cause damage to the vehicle.


 In this manual, the right and left sides of the tracks refer to their position in relation to the driver sitting at the handlebar of the ATV.





SAFETY PRECAUTIONS


 The following safety precautions are important to help you avoid accidents. Most accidents can be avoided by taking basic precautions. To prevent accidents, carefully read the safety instructions before installing and using your tracks. Tracks must only be used by individuals who have read this owner's manual as well as the safety instructions.


 The most effective safety and preventative measures are based on common sense. Remain calm, alert and on the lookout for potential hazards.


 Do not remove warning stickers and replace them if they become illegible.


 The safety information in your ATV owner's manual and highway safety code regulations also apply to the use of tracks (check the regulations for your province or country).


 Do not use an ATV while under the influence of alcohol, drugs or other medication. This impairs your faculties, reduces your reaction time and above all increases the risk of potentially serious frostbite in winter.


 Even when equipped with tracks, only the operator is permitted on the ATV (see ATV owner's manual and highway safety code regulations).


 Users must wear an approved helmet and visor as well as clothing appropriate for the season at all times. Wear them even for very short rides so you will be prepared for the unexpected at all times.


 Never allow children to operate an ATV (see ATV owner's manual and highway safety code regulations for your province or country), and do not allow an adult to operate an ATV without proper instruction.

 Never place your hands or feet near the tracks when they are in motion in order to avoid serious injury.

 Provide all the information on safety, use of the tracks and use of the ATV to all individuals who will be using them.


 Make sure that shirtsleeves, coats, scarves, laces and other articles of clothing or objects cannot get caught in the moving parts of the tracks.


 Make sure that there are no people or domestic animals in the areas you are operating the ATV.


 Always carry an emergency first aid kit, a cell phone, a hatchet, a tool kit, safety matches and dry paper, as well as a cable to be prepared under any circumstances.





Preventive Maintenance


 If, for any reason, you must suddenly get off your ATV, disengage the clutch, apply the hand brake, turn off the engine and remove the key from the ignition.


 Be careful when crossing public and private roads. Do not cross private roads without permission. It is illegal to cross railroad tracks.


 On unfamiliar terrain, be extra careful and reduce your speed.


 When operating your ATV off well-used trails and on isolated terrain watch out for obstacles hidden by the snow: tree stumps, large rocks, fallen trees, fences, ditches and other hazards.


 Before leaving on a long ride, familiarize yourself with the operation of the tracks near your home on a level surface. Operating an ATV with tracks is different than with tires.

 If your ATV becomes unstable while in use, stop, turn off the engine and determine the cause.

 Do not adjust the tracks unless the ATV engine is off and the hand brake applied.

 Do not follow the ATV too closely to avoid being hit by debris kicked up by the tracks.


 Regularly check all bolts and tighten them if necessary to avoid costly repairs. Make sure that your equipment is in safe operating condition.

 To remove ice and snow from the track components, you must first turn off the ATV engine, apply the hand brake and remove the key from the ignition. For safety reasons, do not use your hands or feet to remove snow and ice. Use a piece of wood or any other rigid non-metallic object to dislodge ice or snow.

THIS SYMBOL INDICATES



DANGER TO YOURSELF
OR TO OTHERS

 LES FABRICATIONS TJD is not responsible for any changes in the operation of the ATV that could be due to tracks traction.

 Respect the towing capacity specified by the ATV manufacturer, even when equipped with tracks.


 Do not drive over stumps, branches, or rocky terrain as this could damage the tracks or their components.




When you venture off well-used trails or into isolated areas, respect the environment, do not damage vegetation or disturb wildlife.





INSTALLATION

 Turn off the engine and remove the key from the ignition before installing tracks on your ATV to avoid asphyxiation from exhaust fumes. These fumes are odourless, colourless and can be fatal.


 Wear appropriate work clothes while you are installing tracks: safety glasses, steel-toed boots, and gloves.

 Make sure that shirtsleeves, coats, scarves, laces and other articles of clothing or objects cannot get caught in the moving parts.

 During installation, do not turn the tracks with engine power until they are positioned on the ground and you are in the driver's seat.

 Do not make any adjustments to the tracks unless the engine is off and the hand brake is applied.

 Always adjust the ATV's suspension to its maximum stiffness.

 Apply threadlocker (Loctite) to all nuts and bolts.

 Correctly adjust the tension so the tracks stay in their proper position on the rollers.

When installing tracks on an ATV, choose a clean level surface with good lighting and good ventilation. Put the ATV in neutral (N), turn off the motor, remove the key from the ignition, apply the hand brake and position chocks in front and in back of the wheels that are in contact with the ground, to immobilize the vehicle.

You do not need to modify your ATV to install tracks. First identify the front and back tracks, as well as the left and right tracks. If the edges of the fenders are in contact with the tracks, the fenders must be cut back slightly. **THE ATV'S SUSPENSION MUST ALWAYS BE AT MAXIMUM STIFNESS WHEN USING THE TRACKS.**





USE


Tracks are designed for use on all types of snow as well as on swampy terrain, sand, slush, mud and hard surfaces.


Before each outing, remove snow and ice from the tracks components with a piece of wood or other rigid, non-metallic object, but never hit the components directly.

For your security the maximum speed recommended is 25 km/h. Consult your ATV owner's manual for load weight.

 Carefully read the owner's manual to familiarize yourself with all the safety information in order to get the best service from your equipment.

 You are advised to drive at a reduced speed for better traction and control of the ATV.

 To remove ice and snow from the track components, the ATV engine must be turned off, the hand brake must be applied and the key must be removed from the ignition. It is not safe to use your hands or feet to remove ice and snow. Use a piece of wood or a rigid, non-metallic object to dislodge ice and snow.

 Do not drive over stumps, branches, or rocky terrain as this could cause damage to the cat tracks or their components.



When you venture off well-used trails or into isolated areas, respect the environment, do not damage vegetation or disturb wildlife.



MAINTENANCE



Before doing any maintenance on the tracks or on the ATV (see ATV manual), turn off the ATV engine and remove the key from the ignition. This also applies before making any inspection.

Automatic Track tension

The adjustment of the track is automatic but should be checked regularly for best operation of the components.

Checking the condition of the hardware

To maintain your equipment in optimal working condition, replace damaged bolts as well as nylon nuts and any other part subject to normal wear and tear such as the bearings and the tube covers on the frame. Replace them with original manufacturer parts; see your authorized dealer for further information.



Regularly check all bolts and tighten them if necessary to avoid costly repairs. Make sure that your equipment is in safe operating condition.



The lock nuts are designed for one-time use only and must never be reused once they have been removed.

Cleaning



To ensure long life, clean the rubber tracks with soapy water only.

REMOVAL



Before removing the track system from the ATV, turn off the engine and remove the key from the ignition

When removing the tracks system, take **the same safety precautions** you employed when assembling it (see **installation**).

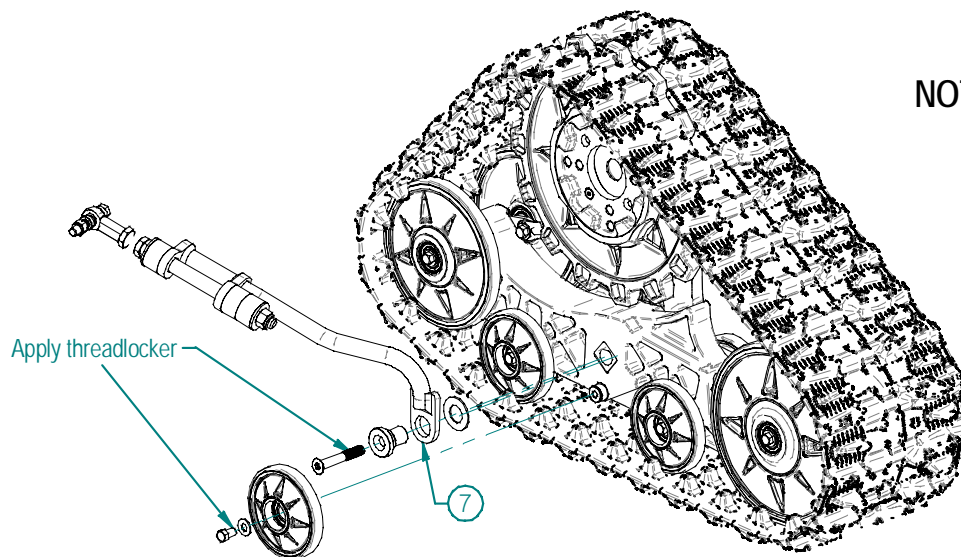
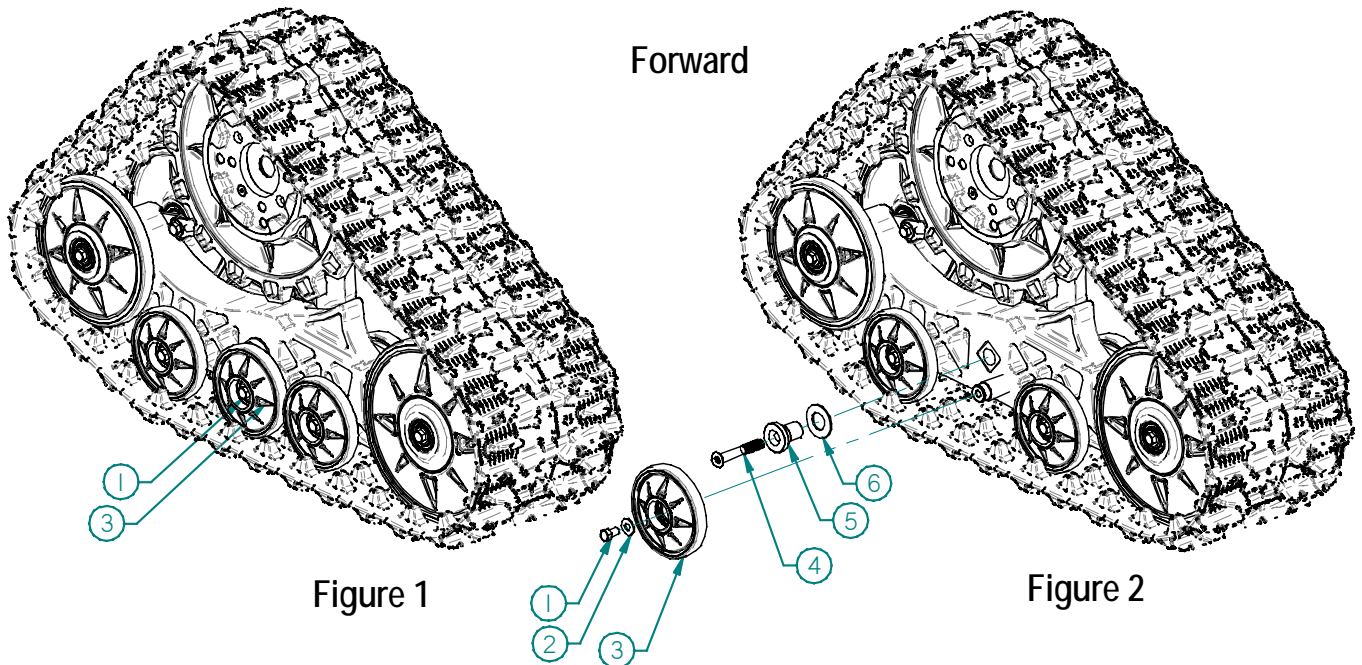
To remove the track system, follow the steps in the **INSTALLATION** section in roughly reverse order. They are easy to remove and only the track system itself has to be removed. Once removed, release the tension on the four tracks.

Store the track system under cover until you are ready to reinstall it for the next season; this is the time to inspect and check the condition of the hardware. Have your local dealer to check and grease the hub bearings to stay out of problems every season.



STABILISATION BAR INSTALLATION PROCEDURE

- 1- Start by removing the bolt (1) and the washer (2) retaining the wheel (3) of the rear assembly, which is in front of the bushing (5). Then remove the wheel.
- 2- Remove the bolt (4), the bushing (5) and the washers (6).
- 3- Place the stabilisation bar as shown in figure 3.
- 4- Apply threadlocker(loctite) on the bolt (1 et 4) then replace the parts in order as shown in a figure 3.



NOTE: RIGHT ASSEMBLY SHOWN

Figure 3



HUB ADAPTOR INSTALLATION PROCEDURE

1. Remove the wheel of ATV hub.



*3. Put the hub spacer on the ATV hub.



*2. Put the hub spacer on the ATV hub.



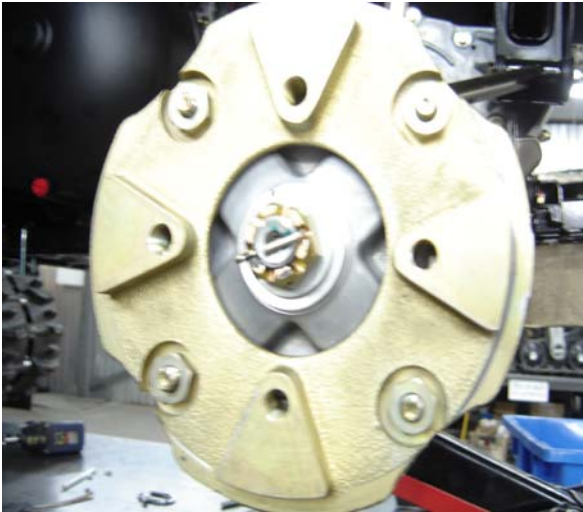
4. Put the hub adaptor on the ATV hub.



*If Applicable



5. Tighten de 4 wheel nuts provided with the adaptor. (60lbsxfoot).



7. Once the XGEN assembly is fully engaged, position the sprocket to match the holes on the front side of the suspension arm.



6. Position the sprocket of the XGEN assembly to allow the sprocket to fully engage into the hub adaptor.



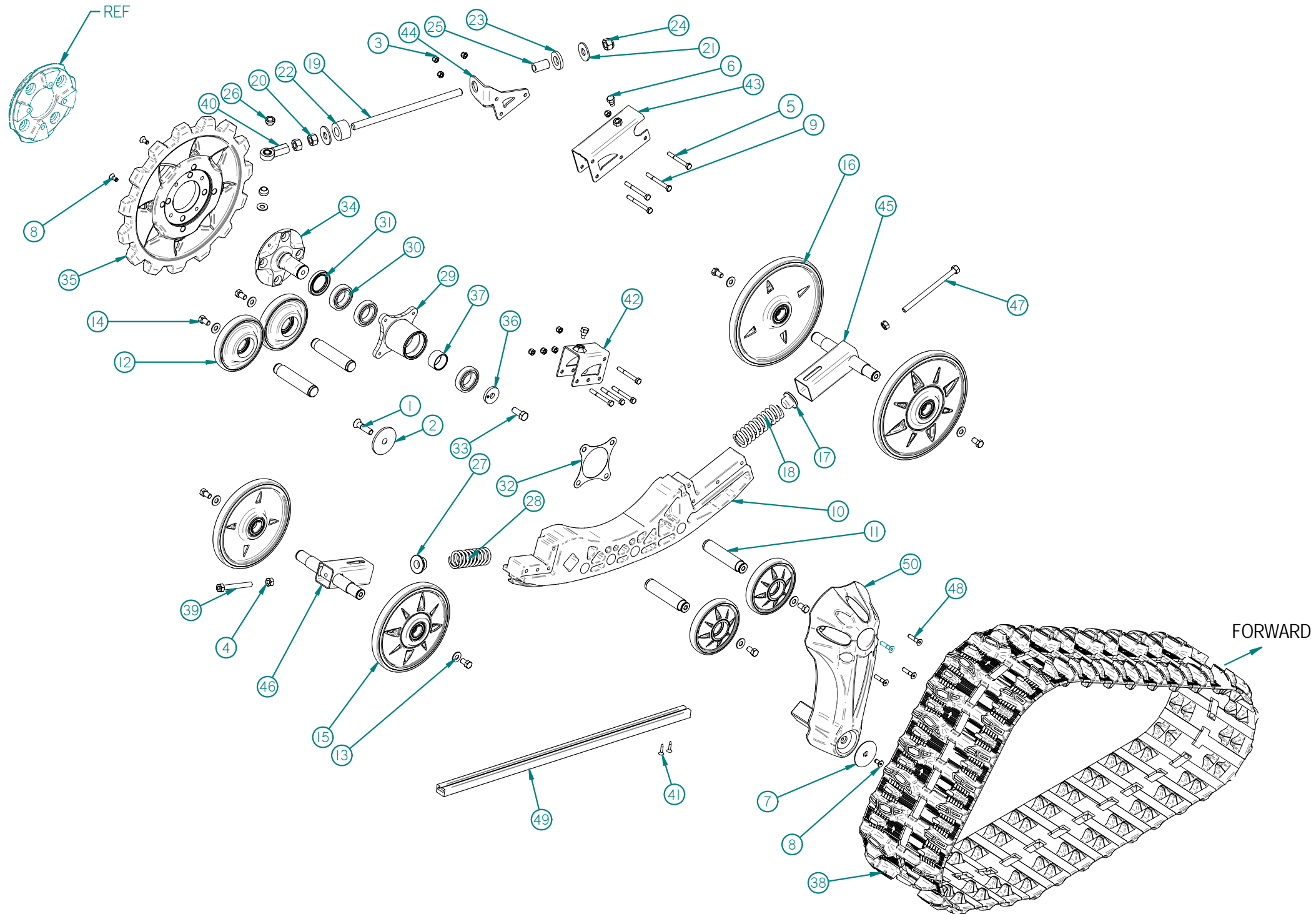
8. Bolt the XGEN assembly by the front side to the hub adaptor with the bolts provided with the hub adaptor. Apply threadlocker (Loctite) on the bolts.



TABLE 1

MAKE	TORQUE IN POUND-FOOT
ARCTIC CAT	30
BOMBARDIER	45
HONDA	47
KAWASAKI	58
POLARIS	30
SUZUKI	60
YAMAHA	40

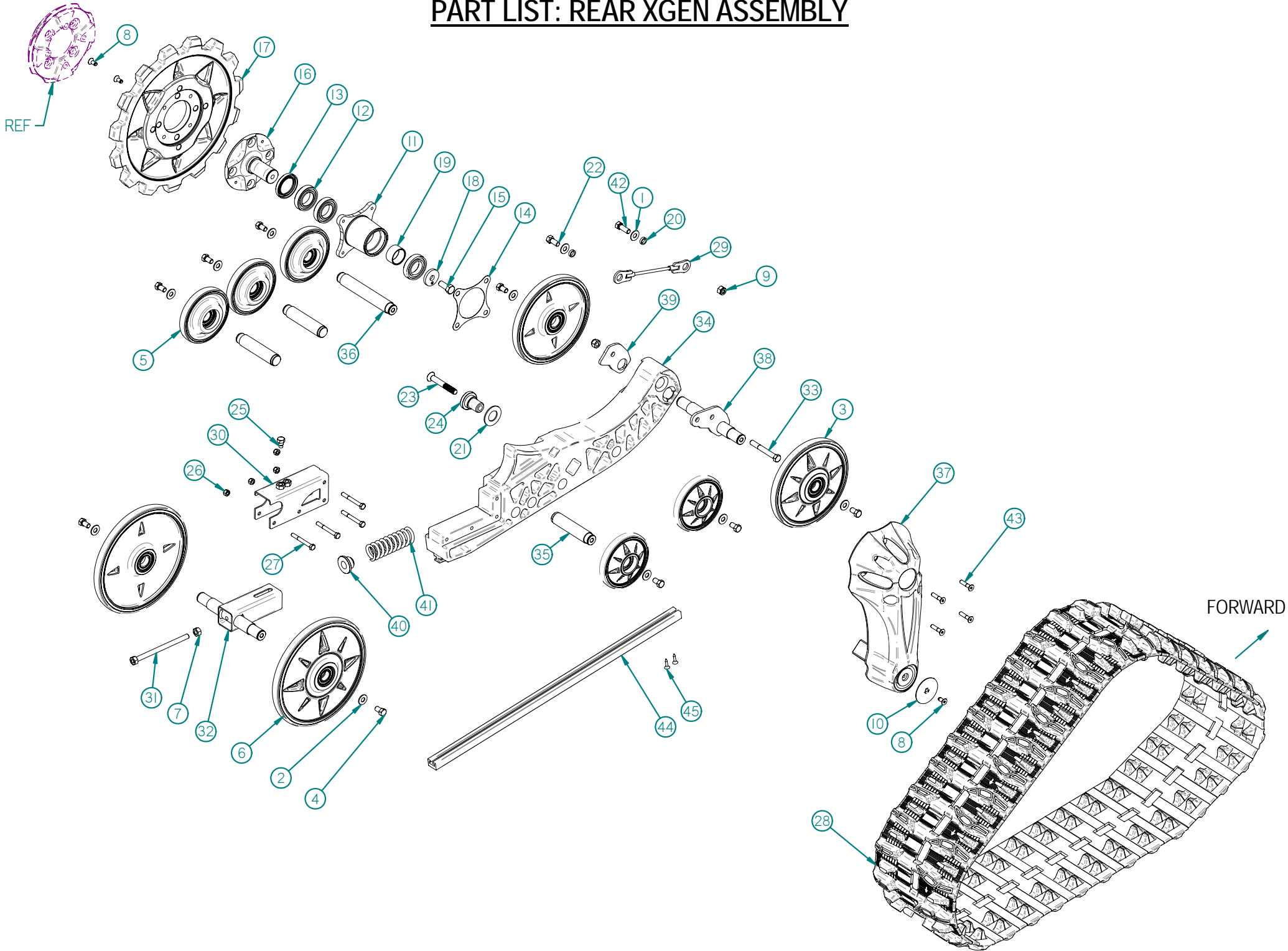
PART LIST: FRONT XGEN ASSEMBLY



PART LIST: FRONT XGEN ASSEMBLY

RÉF	#PART	Description (A)	QTY
1	FHCS-112x2	Flat Head Cap Screw 1/2-13 NC x 2"	1
2	04CA-007	Internal Cover	1
3	HLN-5116-18NC	Nylon Insert Locknut 5/16-18 NC	8
4	HN-7116-14NC	Hex Nut 7/16-14 NC	2
5	HB-5116-18NCx2-3/4	Hex Bolt 5/16-18 NC x 2-3/4"	5
6	04HE-004	Modified Bolt	2
7	04CA-006	External Cover	1
8	FHCS-5116x3/4	Nylon Insert Locknut 5/16-18 NC x 3/4"	3
9	HB-5116-18NCx3	Hex Bolt 5/16-18 NC x 3"	3
10	02SO-002	Front Track Shoe	1
11	04AR-035	Simple Axle	4
12	02RO-006	Wheel 6"	4
13	FW-7116-USS	Flat Washer 7/16" USS Zinc Plated	9
14	HB-7116-14NCx3/4	Hex Bolt 7/16-14 NC x 3/4"	8
15	02RO-005	Wheel 9"	2
16	02RO-004	Wheel 11"	2
17	04AR-038	Support Bushing For Spring 28mm	1
18	04RC-001	Spring	1
19	04TF-014	Threaded Rod	1
20	HN-518-11NC	Hex Nut 5/8-11 NC	2
21	FW-518	Flat Washer 5/8" Zinc Plated	2
22	02RU-001	Rubber 1" Duro 60	1
23	02RU-002	Rubber 1/4" Duro 70	1
24	HLN-518-11NC	Nylon Insert Locknut 5/8-11 NC	1
25	04TU-081	Stabilisation Rod Tube	1
26	04DO-014	Taper Bushing	2
27	04AR-039	Support Bushing For Spring 30mm	1
28	04RC-002	Spring	1
29	04DO-011	Bushing	1
30	BB6007-RSR	Bearing	3
31	02JE-002	Seal	1
32	02JE-001	Gasket	1
33	HB-112-13NCx1-1/4	Hex Bolt 1/2-13 NC x 1-1/4"	1
34	04MO-210	Hub	1
35	02BA-001	Sprocket	1
36	04RS-001	Special Washer	1
37	04TU-006	Bushing Spacer	1
38	02CH-002	Track	1
39	03TF-001	Tensioner Rod	1
40	02RT-001	Rod End 1/2" with 5/8-11 NC Thread	1
41	FHWS10x1	Flat Head Wood Screw 10 x 1po	2
42	03RT-001	Tensioner Cover Assembly	1
43	03RT-002	Tensioner Cover Assembly	1
44	04PL-023D	Stabilisation Rod Support	1
45	03TE-005	Tensioner Tube Assembly	1
46	03TE-006	Tensioner Tube Assembly	1
47	03TF-002	Tensioner Rod	1
48	FHCS-5116x1_112_v7.00	Flat Head Cap Screw 5/16-18 NC x 1-1/2"	4
49	04LI-003	Slide	1
50	03BC-002	Structural Arm Vulcanised Assembly	1

PART LIST: REAR XGEN ASSEMBLY



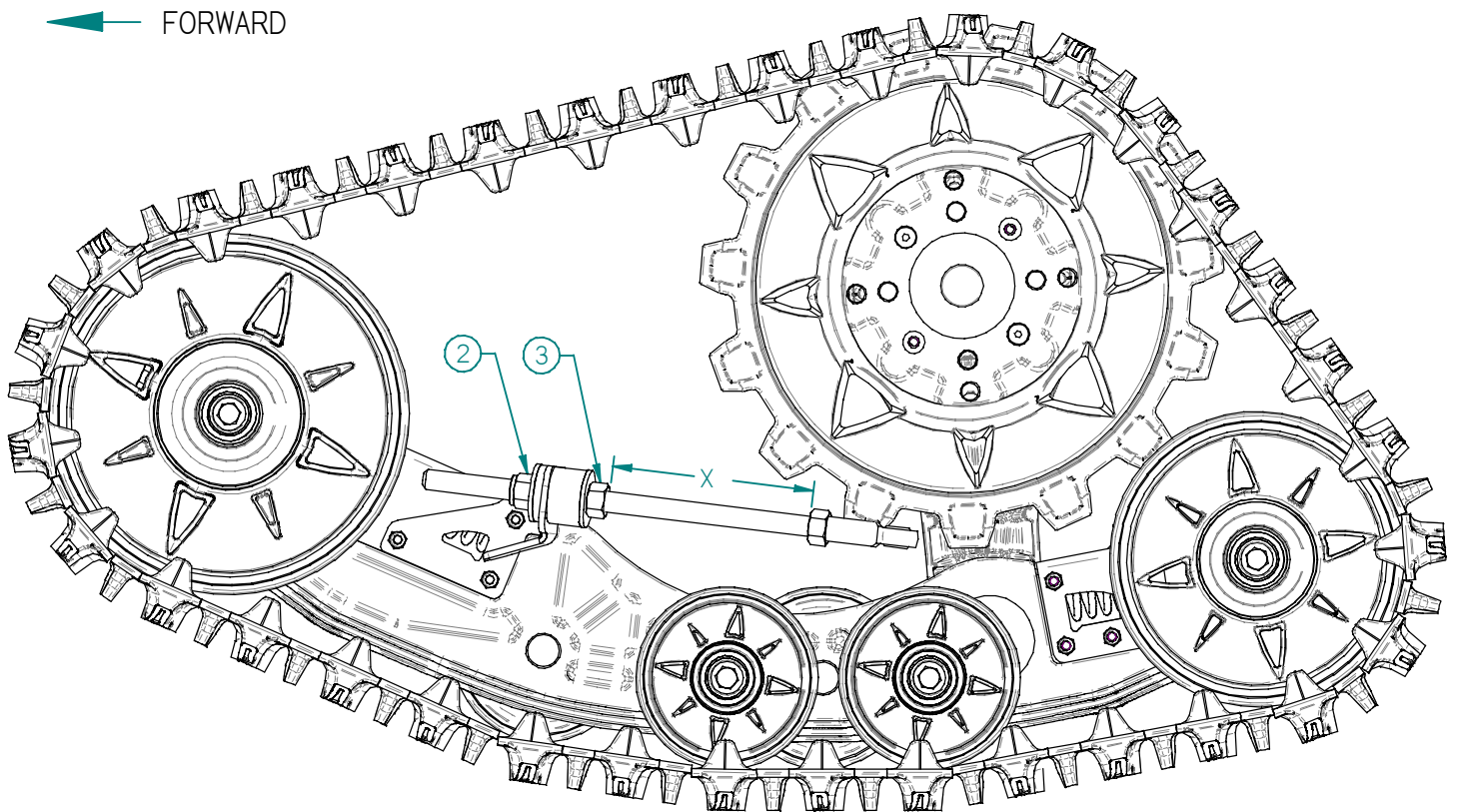
PART LIST: REAR XGEN ASSEMBLY

RÉF	# PART	Description (A)	QTY.
1	FW-318-USS	Flat Washer 3/8" USS	2
2	FW-7116-USS	Flat Washer 7/16" USS Zinc Plated	9
3	02RO-005	Wheel 9"	2
4	HB-7116-14NCx314	Hex Bolt 7/16-14 NC x 3/4"	9
5	02RO-006	Wheel 6"	5
6	02RO-004	Wheel 11"	2
7	HN-7116-14NC	Hex Nut 7/16-14 NC	1
8	FHCS-5116x314	Nylon Insert Locknut 5/16-18 NC x 3/4"	3
9	HLN-7116-14NC	Nylon Insert Locknut 7/16-14 NC	2
10	04CA-006	External Cover	1
11	04DO-011	Bushing	1
12	BB6007-RSR	Bearing	3
13	02JE-002	Seal	1
14	02JE-001	Gasket	1
15	HB-112-13NCx1-114	Hex Bolt 1/2-13 NC x 1-1/4"	1
16	04MO-210	Hub	1
17	02BA-001	Sprocket	1
18	04RS-001	Special Washer	1
19	04TU-006	Bushing Spacer	1
20	04DO-013	Cable Bushing	2
21	FW-1-SAE	Flat Washer 1" SAE Zinc Plated	1
22	HB-7116-14NCx1	Hex Bolt 7/16-14 NC x 1"	1
23	FHCS-112x3_112	Flat Head Cap Screw 1/2-13 NC x 3-1/2"	1
24	04DO-012	Stabilisation Bar Bushing	1
25	04HE-004	Modified Bolt	1
26	HLN-5116-18NC	Nylon Insert Locknut 5/16-18 NC	4
27	HB-5116-18NCx2-314	Hex Bolt 5/16-18 NC x 2-3/4"	4
28	02CH-002	Track	1
29	03CR-001	Cable Assembly	1
30	03RT-003	Tensioner Cover Assembly	1
31	03TF-002	Tensioner Rod	1
32	03TE-005	Tensioner Tube Assembly	1
33	HB-7116-14NCx3-112	Hexagonal bolt	1
34	02SO-001	Rear Track Shoe	1
35	04AR-035	Simple Axle	3
36	04AR-036	Axle	1
37	03BC-002	Structural Arm Vulcanised Assembly	1
38	03AR-001D	Welded Axle	1
39	04CA-008	Cover	1
40	04AR-038	Support Bushing For Spring 28mm	1
41	04RC-001	Spring	1
42	HB-7116-14NCx1-114	Hex Bolt 7/16-14NC x 1-1/4"	1
43	FHCS-5116x1_112_v7.00	Flat Head Cap Screw 5/16-18 NC x 1-1/2"	4
44	04LI-003	Slide	1
45	FHWS10x1	Flat Head Wood Screw 10 x 1po	2



STABILISATION ROD INSTALLATION PROCEDURE

- 1- The ATV must be park on a flat, level surface. Put a level over the two inside wheel (see figure) .
- 2- Screw or unscrew the nuts (2) and (3) until the XGEN assembly is level. Measure the "X" dimension.
- 3- Subtract 1/8" (3mm) of the "X" dimension by screwing the nut (2) and unscrewing the nut (3). Then, tighten the nut (2) while maintaining the nut (3) in place.



NOTE: RIGHT ASSEMBLY
SHOWN