



SANDCRAFT C11170120 Polaris RZR DIY Gen 2 Bulletproof Front Diff Kit Instruction Manual

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SANDCRAFT C11170120 Polaris RZR DIY Gen 2 Bulletproof Front Diff Kit



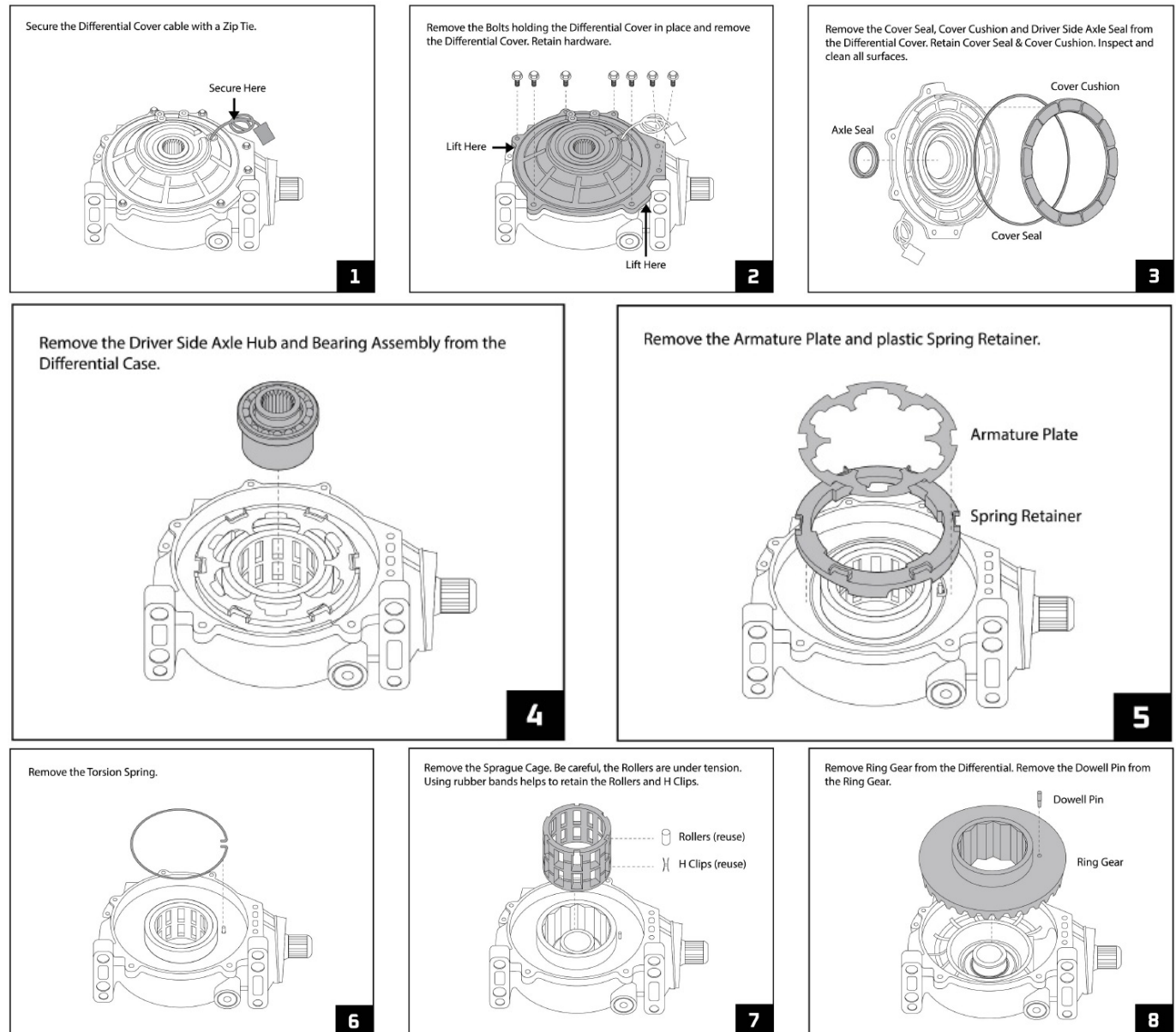
INSTALLATION INSTRUCTIONS

READ THIS ENTIRE INSTRUCTION MANUAL BEFORE STARTING

ATTENTION! TO ENSURE CORRECT OPERATION, USE POLARIS DEMAND DRIVE FLUID.

RUN THE MACHINE WITH FOUR-WHEEL DRIVE ENGAGED FOR 50-100 MILES, THIS WILL ALLOW YOUR DIFFERENTIAL TO PROPERLY MATE WITH THIS PRECISION-MADE ARMATURE PLATE.

SANDCRAFT™ will not be responsible for any damage resulting from mishandling, abuse, misuse, improper storage, improper installation, or improper operation, including use in conjunction with equipment that is mechanically incompatible with, or of inferior quality to, the product, as well as failure to maintain the environmental conditions specified by the manufacturer.

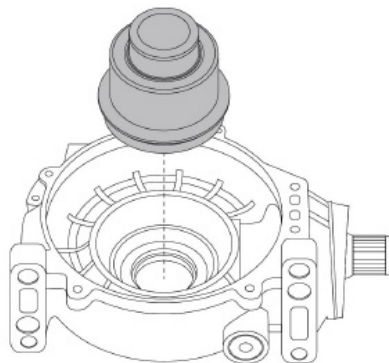


Remove the Ring Gear Shim from the Ring Gear. Retain Shim.



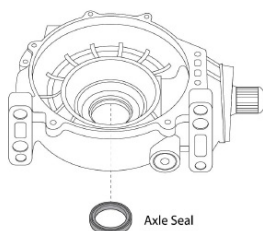
9

Remove the Passenger Side Axle Hub and Bearing from the Differential Case.



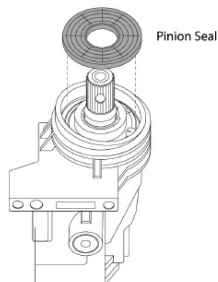
10

Remove the Axle Seal from the passenger side of the Differential Case.



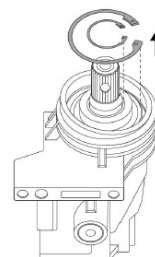
11

Remove the Pinion Seal.



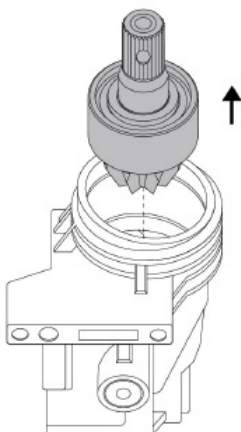
12

Remove the Large Tapered Snap Ring from the Bearing/Case. Remove the Small Snap Ring from the Pinion Gear/Bearing. Note the orientation of each Tapered Snap Ring. Retain hardware.



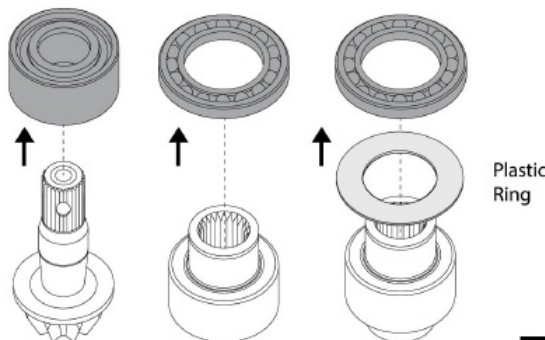
13

Remove the Pinion Gear/Bearing Assembly from the Differential Case.



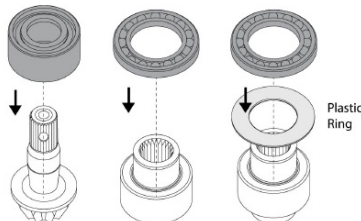
14

Remove the Pinion Gear Bearing. Remove the Axle Bearings. We recommend using a bearing press. Retain Plastic Ring from Male Axle Hub.



15

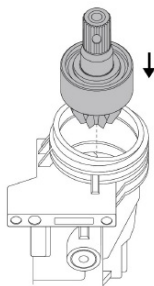
Re-install Plastic Ring on Male Hub. Install SANDCRAFT™ upgraded Pinion and Axle Bearings. We recommend using a bearing press.



17+ XP1000 & TURBO. SEE ADDITIONAL MODEL CONFIGURATIONS ON REVERSE SIDE

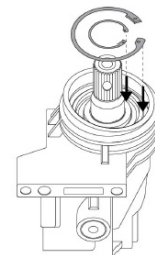
16A

Install the Pinion Gear/Bearing Assembly into the Differential Case.



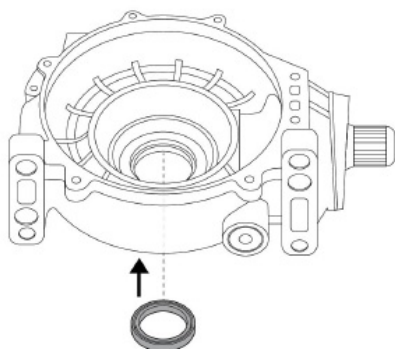
17

Install the large tapered snap ring into the bearing/case. Install the small snap ring into the pinion gear/bearing. Note the orientation, the tapered snap rings install with the flat side down.



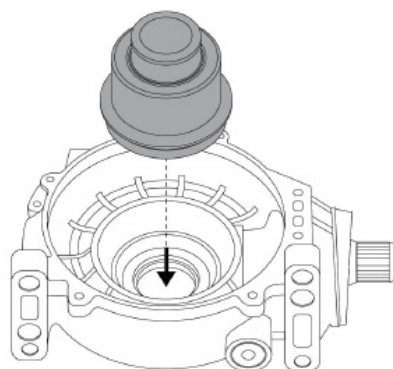
18

Install the SANDCRAFT™ Passenger Side Axle Seal into the Differential Case.



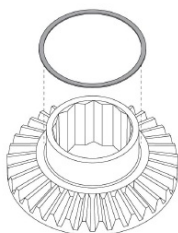
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Install the Passenger Side Axle Hub and Bearing Assembly into the Differential Case.



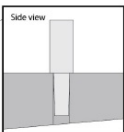
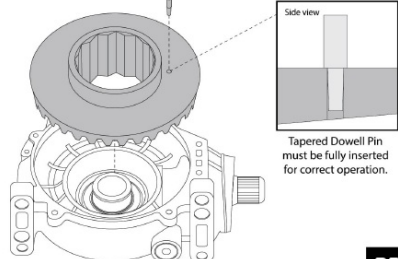
20

Install the Ring Gear Shim onto the Ring Gear.



21

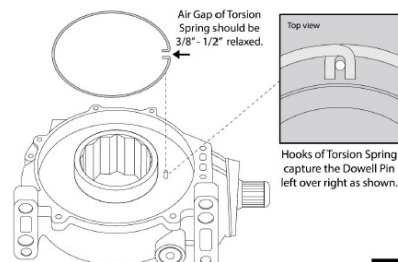
Install the SANDCRAFT™ Solid Tapered Dowell Pin into the Ring Gear. Install the Ring Gear into the Differential Case.



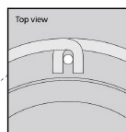
Tapered Dowell Pin must be fully inserted for correct operation.

22

Install the Torsion Spring. Torsion Spring hook ends stack left over right



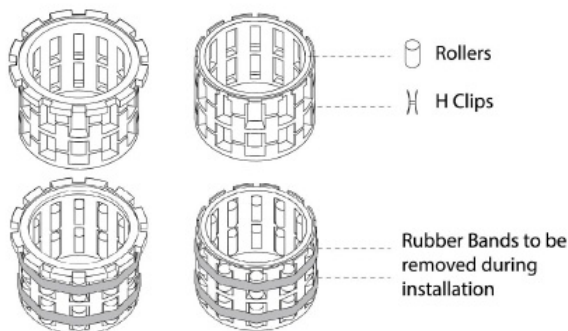
Air Gap of Torsion Spring should be 3/8" - 1/2" relaxed.



Hooks of Torsion Spring capture the Dowell Pin left over right as shown.

23

Install H Clips and Rollers into SANDCRAFT™ Sprague Cage. Use Rubber Bands to temporarily hold the Rollers in place until installation.

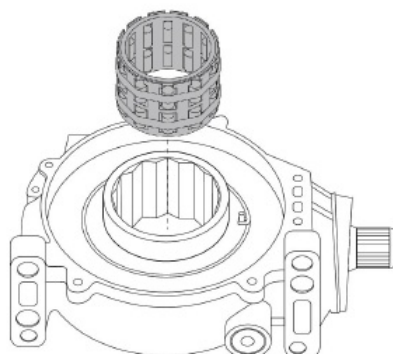


BOMBPROOF

BULLETPROOF

24

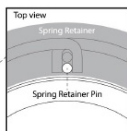
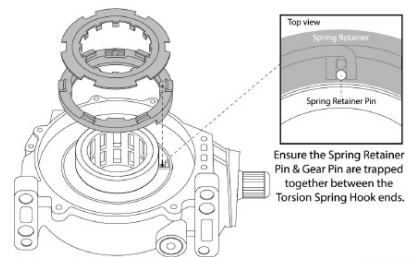
Install the Sprague Cage Assembly into the Differential. Remove the Rubber Bands as the Sprague Cage Assembly is inserted.



*BOMBPROOF KITS FOLLOW ASSEMBLY STEPS 25B-26B BELOW

25A

Install the SANDCRAFT™ Spring Retainer and Armature Plate (teeth down)

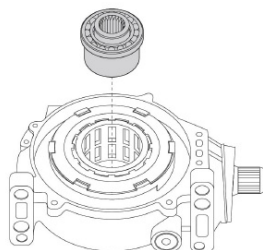


Ensure the Spring Retainer Pin & Gear Pin are trapped together between the Torsion Spring Hook ends.

*BOMBPROOF KITS FOLLOW ASSEMBLY STEPS 25B-26B BELOW

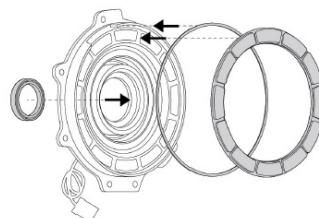
25A

Install the Driver Side Axle Hub and Bearing Into the Differential Case.



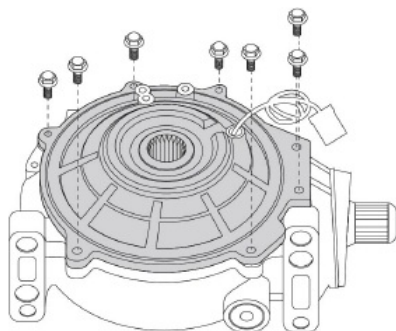
27

Install the SANDCRAFT™ Driver Side Axle Seal into the Differential Cover. Install the Cover Seal and Cover Cushion into the Differential Cover.



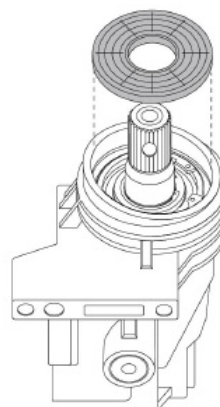
28

Install the differential cover using the stock hardware. Torque to 8 ft-lb.



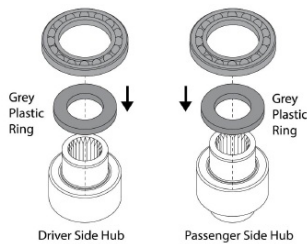
29

Install the Sandcraft RCR Pinion Seal. Remove the Zip Tie from Differential Cover Wire and fill Differential with oil before use.



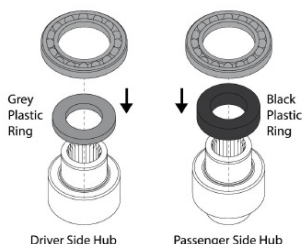
30

BULLETPROOF
2014 POLARIS 1000



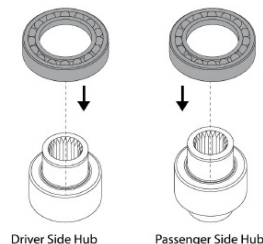
16B

BULLETPROOF
2015 POLARIS 1000



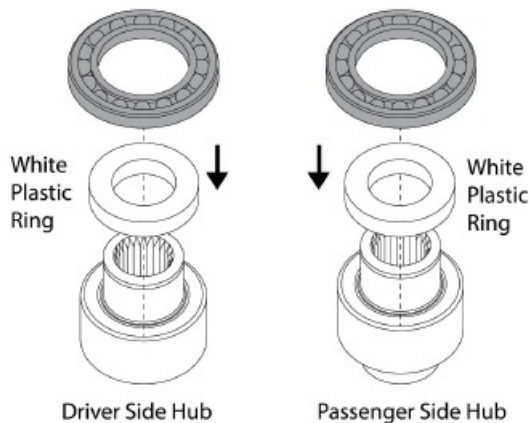
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BULLETPROOF
2016 POLARIS TURBO & SOME 2016 POLARIS 1000



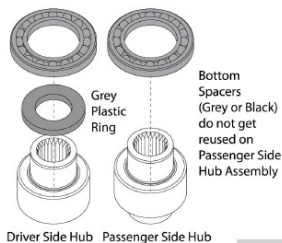
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BULLETPROOF
POLARIS 900 & 800



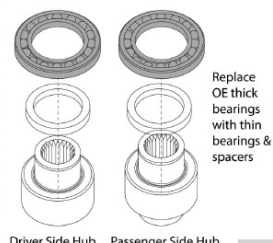
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BOMBPROOF
14-15 POLARIS 1000



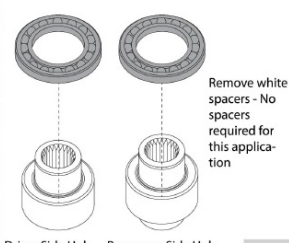
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BOMBPROOF
16 POLARIS TURBO



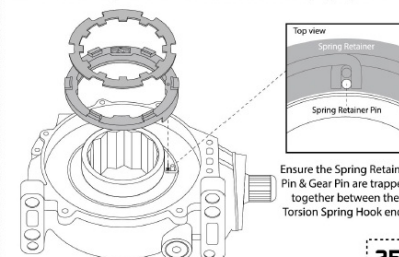
16G

BOMBPROOF
17+ POLARIS TURBO & 1000



16H

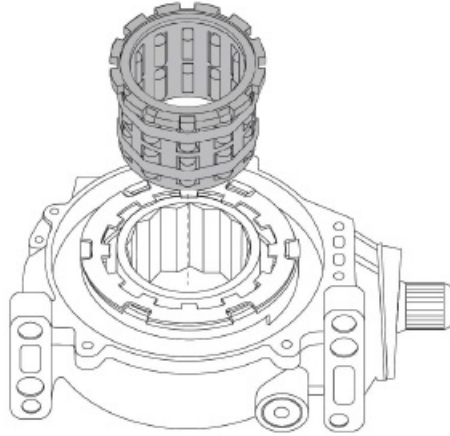
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Install the SANDCRAFT™ Spring Retainer and Armature Plate (teeth up, smooth side down). The Armature Plate sets the Steel Sprague position.



25B

BOMBPROOF

Install the SANDCRAFT™ Sprague Cage Assembly into the Differential.
Remove the Rubber Bands as the Sprague Cage Assembly is inserted.

**26B****Documents / Resources**

[SANDCRAFT C11170120 Polaris RZR DIY Gen 2 Bulletproof Front Diff Kit](#) [pdf] Instruction Manual

C11170120, C12160122, C11150120, C11170122, C11170120 Polaris RZR DIY Gen 2 Bulletproof Front Diff Kit, Polaris RZR DIY Gen 2 Bulletproof Front Diff Kit, RZR DIY Gen 2 Bulletproof Front Diff Kit