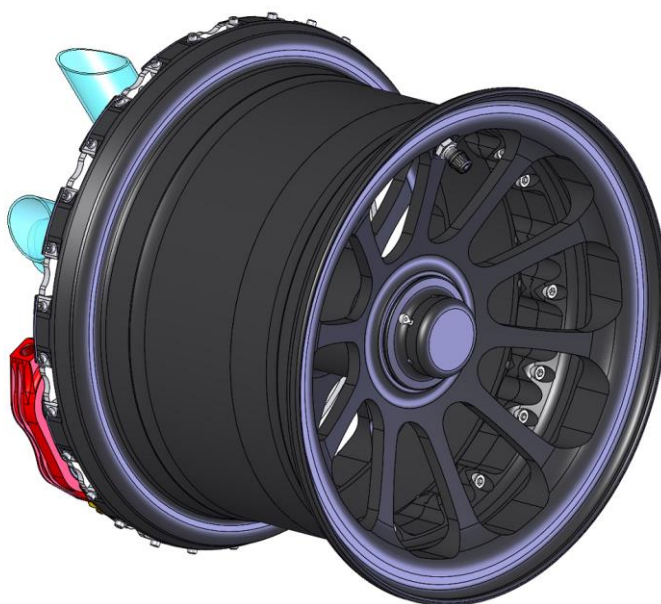




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Installation Manual 8.50-10 LE Wheel (RF-024)



This documents contains 16 pages - Original in color

E						
D						
C						
B						
A	22/03/2018	GAILLARD.C	STUTZER.L	MERLE.Y	Edition initiale	END
	Date	Name - Visa Redaction	Name – Visa Verification	Name – Visa Approbation	Modifications	Etat

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Installation Manual

Ref document:
BRG-MM-003(A)



Installation Manual 8.50-10 LE Wheel (RF-024)

Page

2 / 16

MODIFICATION LIST

REV	Modifications
A	Edition initiale
B	
C	
D	
E	

REFERENCE DOCUMENTS

Title	Assembly reference	Rev
CUB Axle 1.5"_Main wheel 10"/Roue freinée 10"	AV-CUB-320-01	A
CUB Axle 1.25"_Main wheel 10"/Roue freinée 10"	AV-CUB-321-01	A
CUB_Alaskan Landing Gear with BERINGER 10" Wheel	AV-CUB-020.3-01	B
Wheel 10" LE Beringer Kit_Axle/Fusée	LG-K-003-01	A

Installation and Maintenance Manual

Ref document:
BRG-MM-003(A)



Installation Manual 8.50-10 LE Wheel (RF-024)

Page

3 / 16

TABLE OF CONTENTS

1. GENERAL	4
2. TORQUE SPECIFICATIONS	4
3. INSTALLATION ORIGINAL AXLE 1.5 '' (AV-CUB-320-01)	5
3.1. LANDING GEAR CLEANING	6
3.2. BUSHING ASSEMBLY	6
3.3. CALIPER BRAKE ASSEMBLY	7
3.4. BEARING SPACER ASSEMBLY (TIRE NOT SHOWN)	7
3.5. WHEEL ASSEMBLY	8
3.6. VERIFY THE WHEEL POSITION	8
3.7. AXLE CAP ASSEMBLY	8
4. INSTALLATION ORIGINAL AXLE 1.25 '' (AV-CUB-321-01)	9
4.1. LANDING GEAR CLEANING	10
4.2. BUSHING ASSEMBLY	10
4.3. CALIPER BRAKE ASSEMBLY	11
4.4. BEARING SPACER ASSEMBLY (TIRE NOT SHOWN)	11
4.5. WHEEL ASSEMBLY	12
4.6. VERIFY THE WHEEL POSITION	12
4.7. AXLE CAP ASSEMBLY	12
5. INSTALLATION BERINGER ALASKAN LANDING GEAR (AV-CUB-020.3-01)	13
5.1. WHEEL 10" LE BERINGER KIT_AXLE/FUSÉE	14
5.2. CALIPER BRAKE ASSEMBLY	15
5.3. WHEEL ASSEMBLY	16
5.4. VERIFY THE WHEEL POSITION	16
5.5. AXLE CAP ASSEMBLY	16



Installation Manual 8.50-10 LE Wheel (RF-024)

Page

4 / 16

1. General

This manual gives the installation procedures for the BERINGER 8.50-10" LE wheel. This wheel has 3 different options

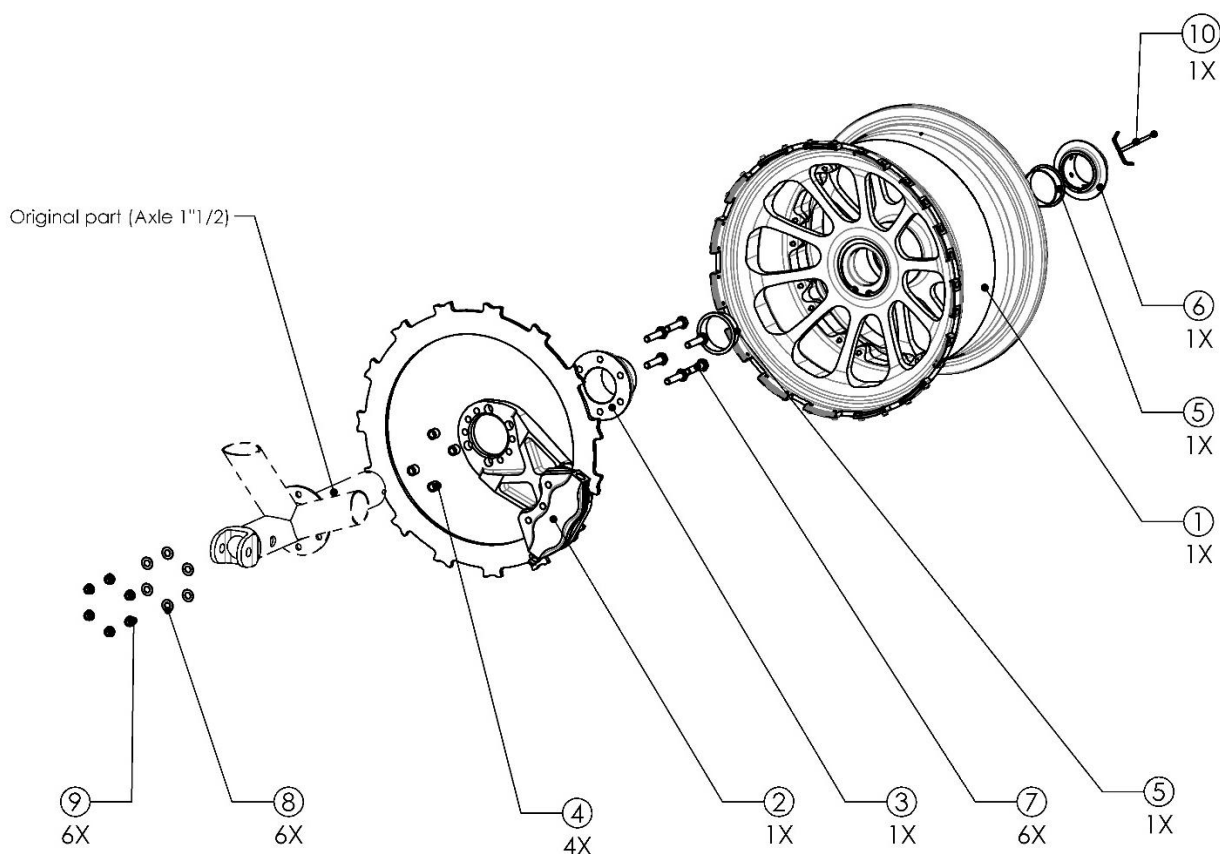
- With original axle 1.5"
- With original axle 1.25"
- With Beringer Alaskan Landing Gear

CAUTION: BERINGER quality process assures that replacement parts are produced and controlled with the same or better quality level as originally certified.

2. Torque Specifications

Description	Torque	
	IN-LBS	N.m
AN4-11A	133	15
MS21042-6	355	40

3. Installation Original Axle 1.5 " (AV-CUB-320-01)

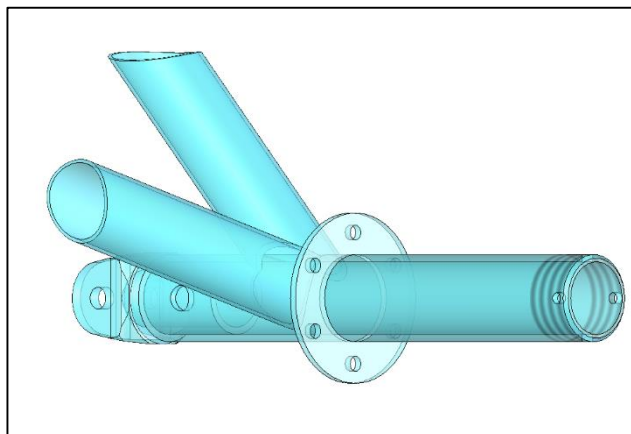


Weight: 5556.82 g

10	MS24665-362	Cotter Pin/Goupille fendue 3.175x63.5	1
9	MS21042-4	Self locking Nut AN4 / Ecrou frein AN4	6
8	NAS1149F0416P	AN4 fine_Washer/ Rondelle AN4 fine	6
7	AN4-11A	AN4_Bolt/ Vis AN4	6
6	ECR-006(A)	1.5" _Threaded cap / Bouchon ecrou	1
5	BGE-035(A)	B-BE-013_Bearing spacer 1,5" / Bague Rlt 1,5"	2
4	BGE-017.3(A)	AN6/AN4_Bushing/Bague	4
3	BGE-033(A)	2P32-10-4_Caliper Spacer Axis 1,5" / Bague étrier axe 1,5"	1
2	EA-010.1N(B)	2P32-10-4_Brake Caliper / Etrier de frein	1
1	RF-024(C)	8.50x10" LE_Main Wheel Assy/ Roue Freinée	1
REP	PART NUMBER	DESCRIPTION	QTY.

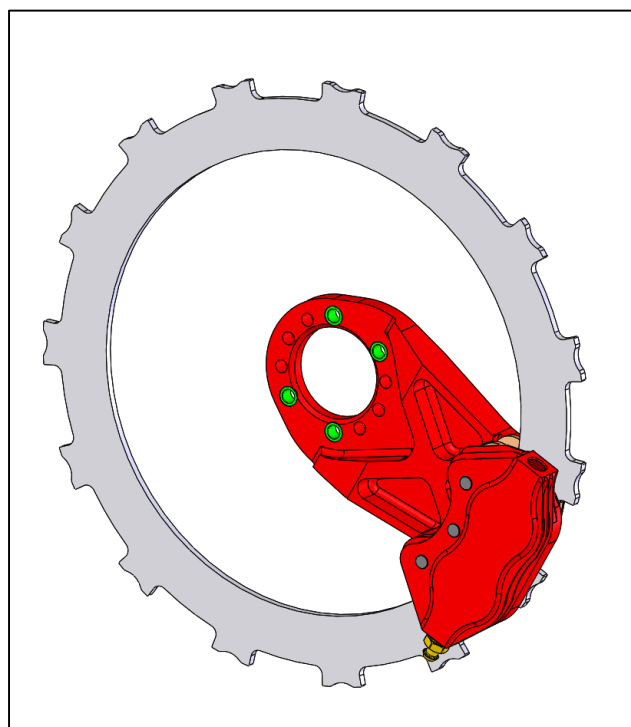
3.1. Landing Gear Cleanning

- Clean Landing Gear Axle with Scotch Brite or similar product to remove any rust or deposits that will make wheel installation difficult.
- Remove any stickers.



3.2. Bushing Assembly

- Put 4 bushings (Item 04), in $\varnothing 9.7$ holes.

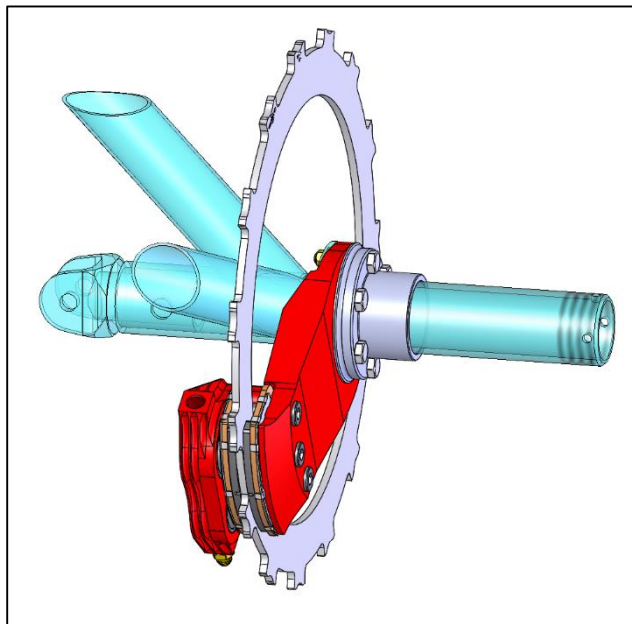


3.3. Caliper Brake Assembly

- Assemble the brake caliper (Item 02), Caliper spacer Axis (Item 03) on Landing Gear Axle With AN bolt (Item 07), washer (Item 08), and nut (Item 09).

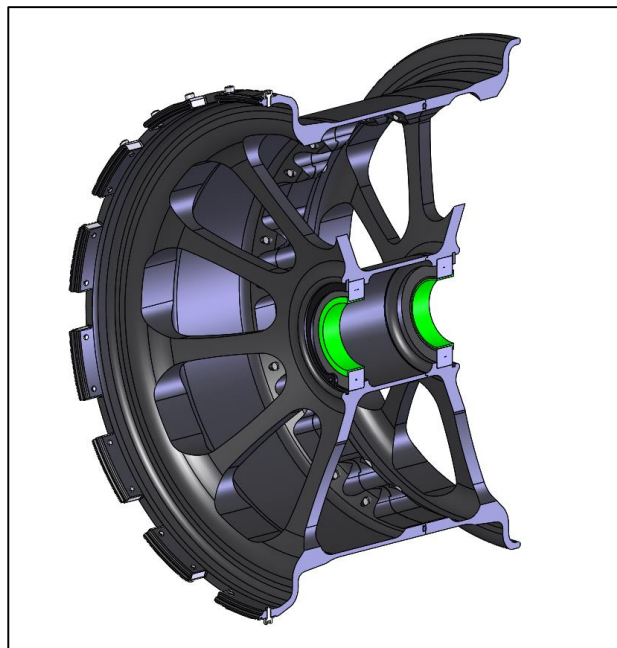
Torque Fasteners per table in section [2](#).

Note: Caliper must be oriented fore or aft with the bleeder fitting facing down.



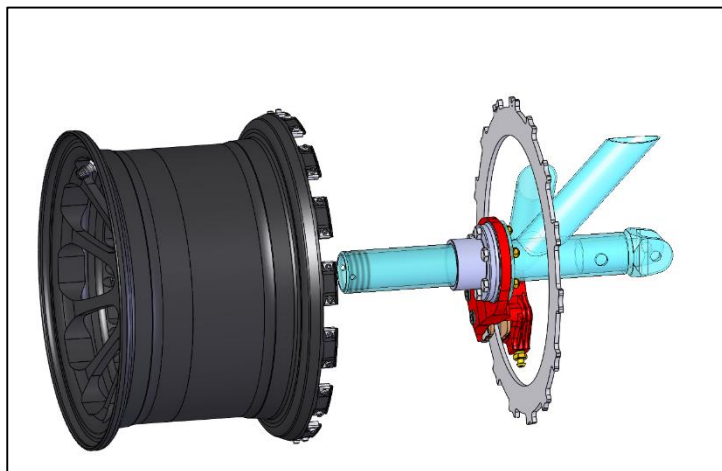
3.4. Bearing Spacer Assembly (Tire not shown)

- Assemble 2 Bearing Spacers (Item 05) on the wheel (Item 01).
- Put grease between the bearing and the bearing spacer. (Grease type BelRay).



3.5. Wheel Assembly

- Put the grease between the bearing spacer and the original axle (Grease type BelRay).
- Assemble Wheel on the original axle and position the disk into the slot.



3.6. Verify the wheel position

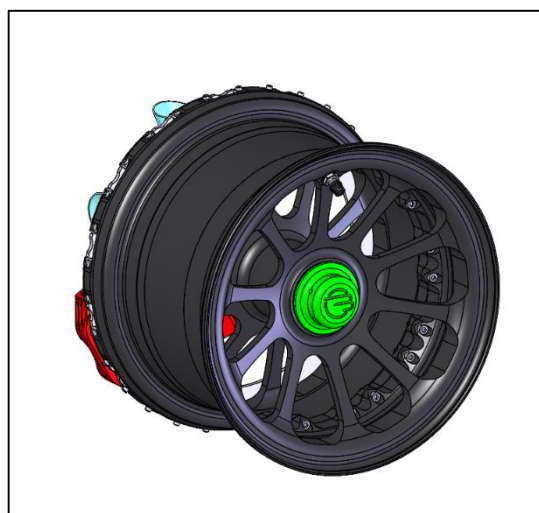
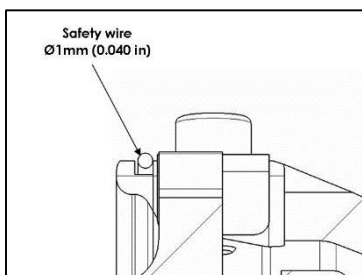
- Check that the disk does not extend past the clips..

Note: The Picture to the right shows the normal position of a new kit. As the brake pads wear, the disk will move outboard.

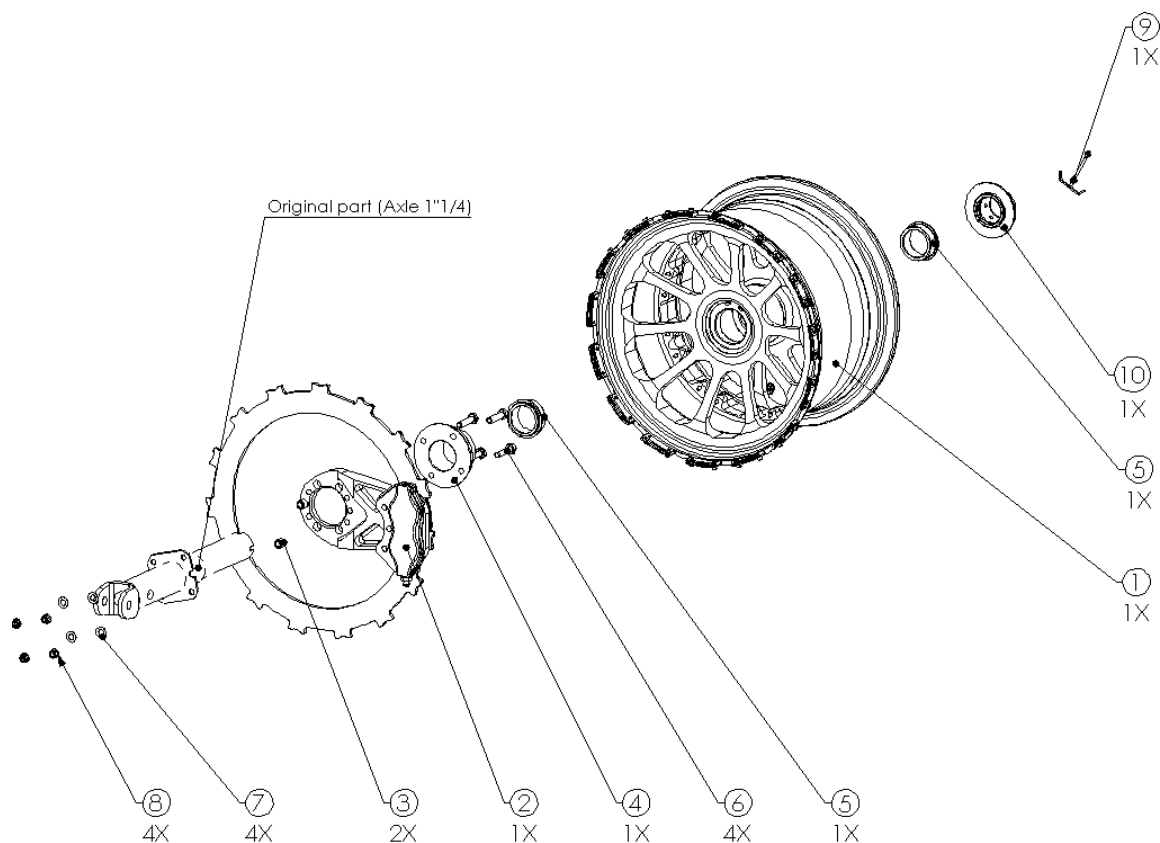


3.7. Axle Cap Assembly

- Tighten the threaded Cap (Item 06) by hand until contact.
- Insert the cotter pin (Item 10).
- Install the safety wire in the groove to limit lateral motion of the disk.



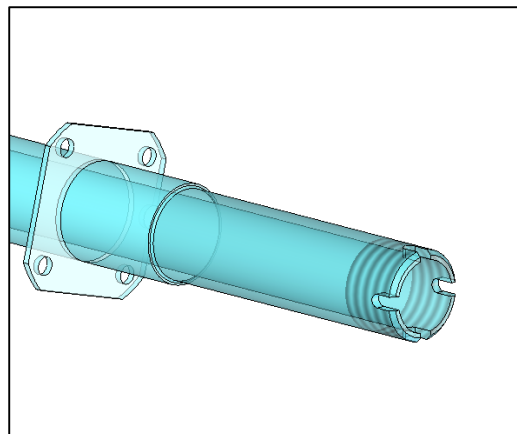
4. Installation Original Axle 1.25 " (AV-CUB-321-01)



10	ECR-006.1(A)	1,25" Threaded cap / Bouchon ecrou	1
9	MS24665-362	Cotter Pin/Goupille fendue 3.175x63.5	1
8	MS21042-4	Self locking Nut AN4 / Ecrou frein AN4	4
7	NAS1149F0416P	AN4 fine_Washer/ Rondelle AN4 fine	4
6	AN4-11A	AN4_Bolt/ Vis AN4	4
5	BGE-037(A)	B-BE-013_Bearing spacer 1,25"/ Bague Rlt Axe 1,25"	2
4	BGE-036(A)	2P32-10-4_Caliper Spacer 1,25" /Bague étrier axe 1,25"	1
3	BGE-017.3(A)	AN6/AN4_Bushing/Bague	2
2	EA-010.1N(B)	2P32-10-4_Brake Caliper / Etrier de frein	1
1	RF-024(C)	8.50x10" LE_Main Wheel Assy/ Roue Freinée	1
REP	PART NUMBER	DESCRIPTION	QTY.

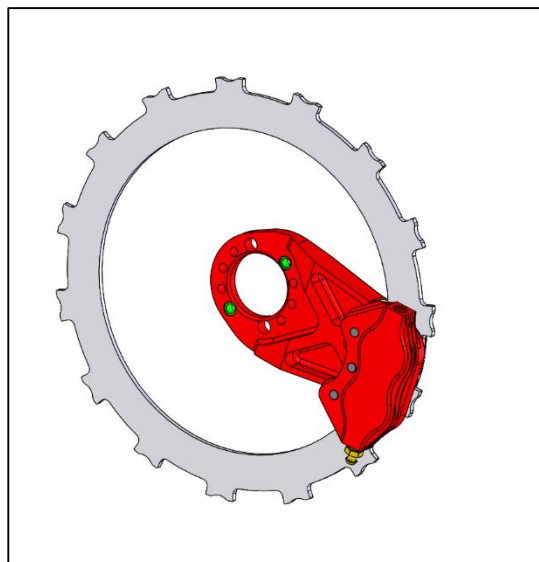
4.1. Landing Gear Cleanning

- Clean Landing Gear Axle with Scotch Brite or similar product to remove any rust or deposits that will make wheel installation difficult.
- Remove any stickers.



4.2. Bushing Assembly

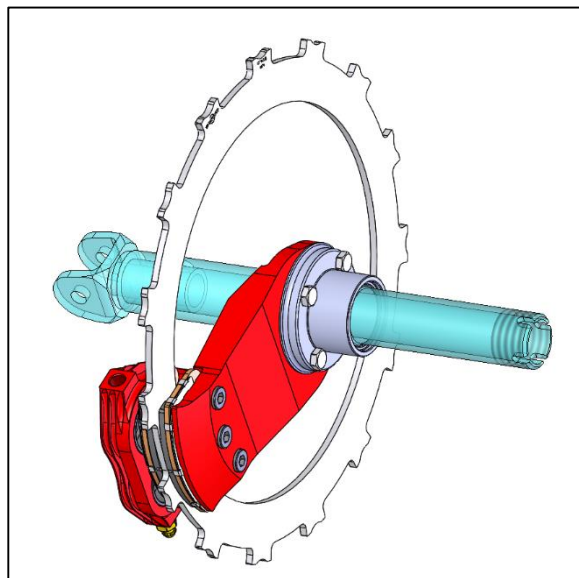
- Put 2 bushings (Item 03), in $\varnothing 9.7$ holes.



4.3. Caliper Brake Assembly

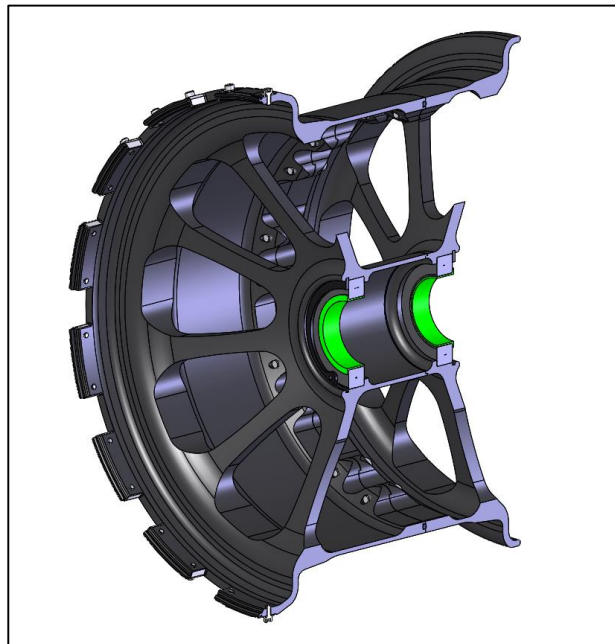
- Assemble the brake caliper (Item 02), Caliper spacer Axis (Item 04) on Landing Gear Axle With AN bolt (Item 06), washer (Item 07), and nut (Item 08). Torque Fasteners per table in section [2](#).

Note: Caliper must be oriented fore or aft with the bleeder fitting facing down.



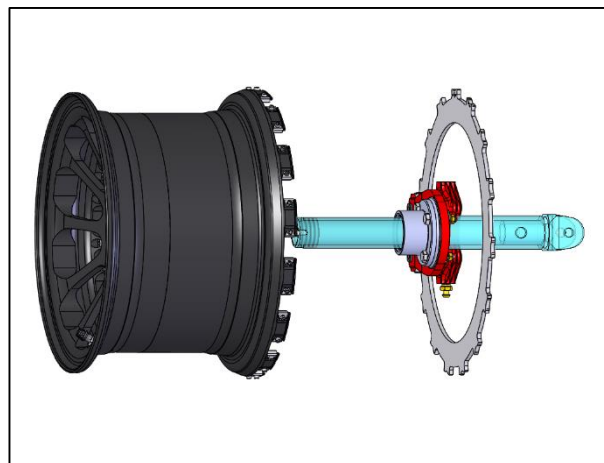
4.4. Bearing Spacer Assembly (Tire not shown)

- Assemble 2 Bearing Spacers (Item 05) on the wheel (Item 01).
- Put grease between the bearing and the bearing spacer. (Grease type BelRay).



4.5. Wheel Assembly

- Put the grease between the bearing spacer and the original axle (Grease type BelRay)
- Assemble Wheel on the original axle and position the disk into the slot.



4.6. Verify the wheel position

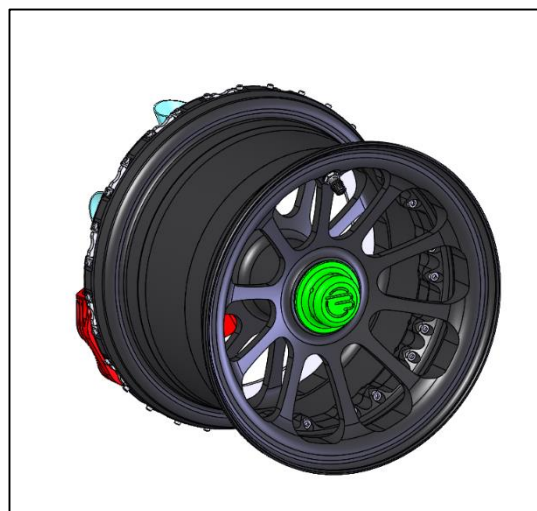
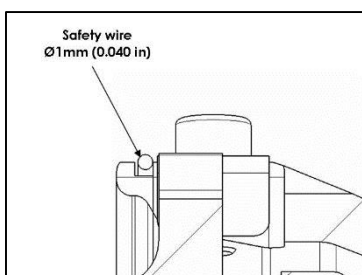
- Check that the disk does not extend past the clips..

Note: The Picture to the right shows the normal position of a new kit. As the brake pads wear, the disk will move outboard.

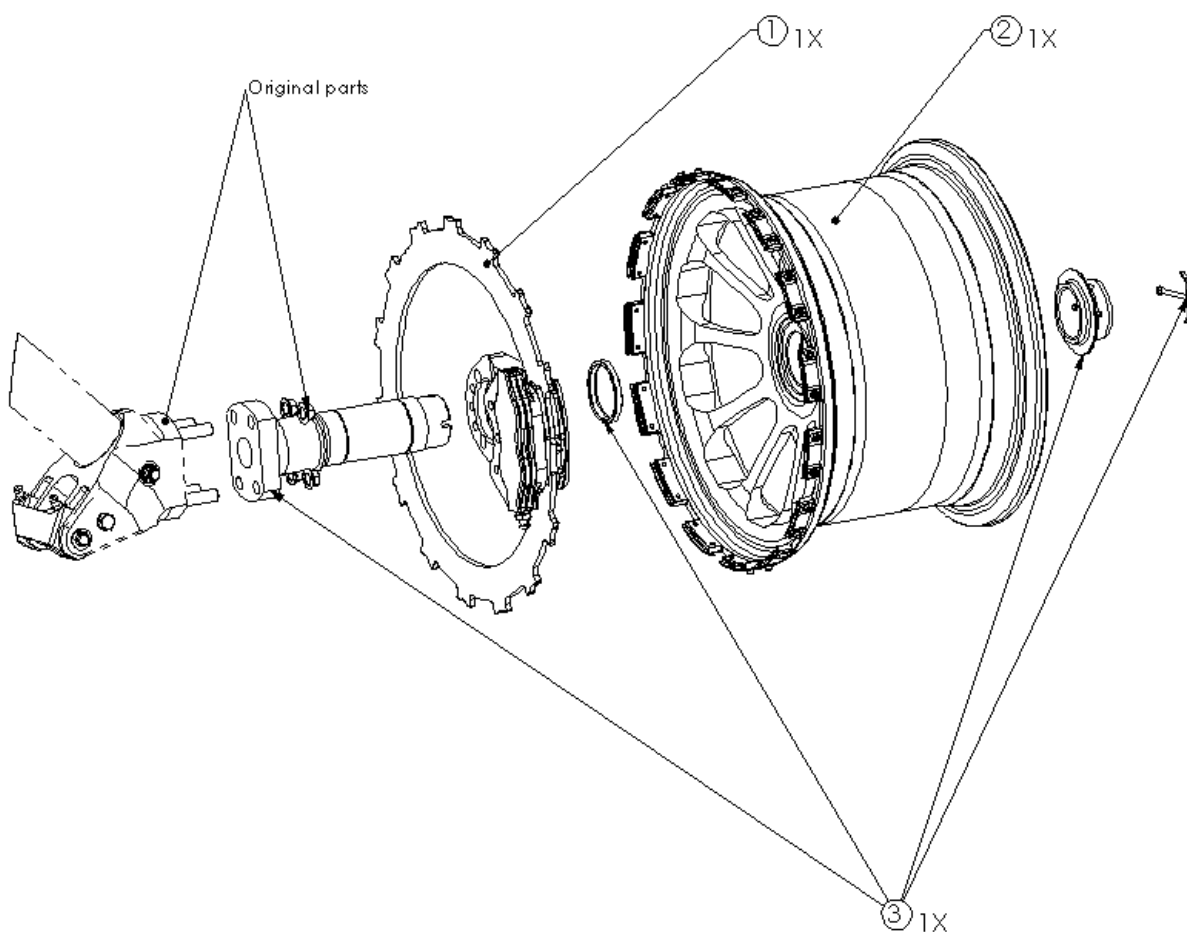


4.7. Axle Cap Assembly

- Tighten the threaded Cap (Item 10) by hand until contact.
- Insert the cotter pin (Item 09).
- Install the safety wire in the groove to limit lateral motion of the disk.

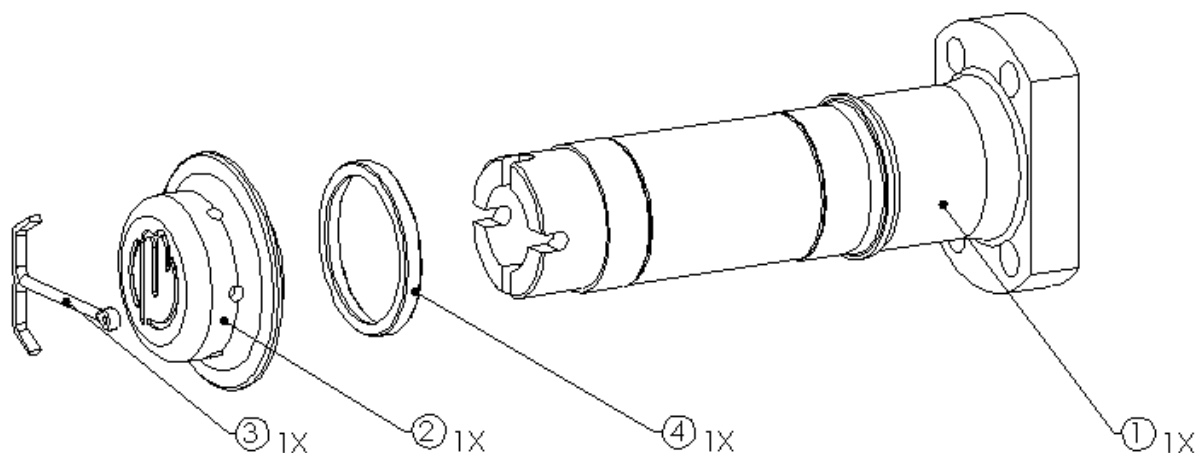


5. Installation Beringer Alaskan Landing Gear (AV-CUB-020.3-01)



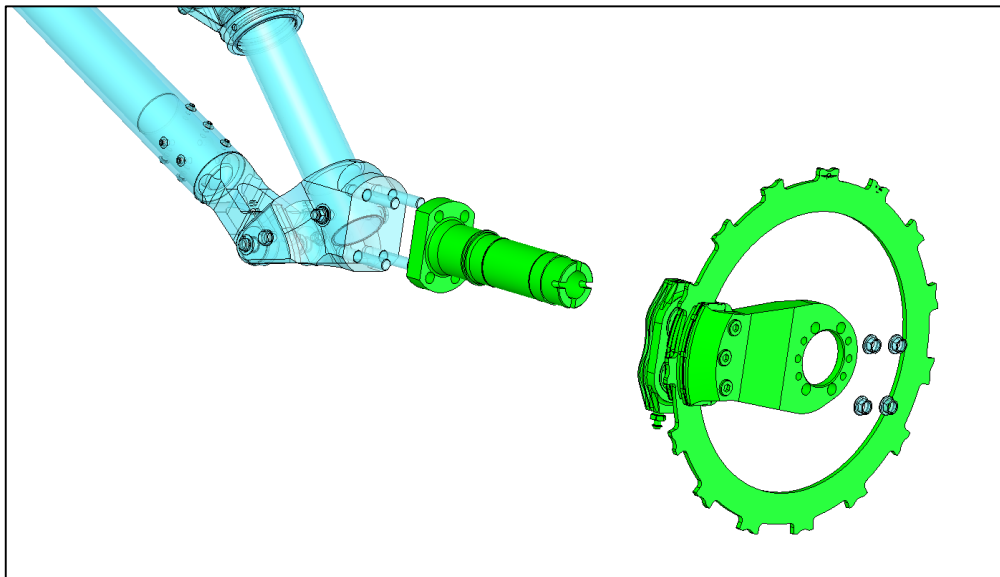
3	LG-K-003(A)	Wheel 10" LE Beringer Kit_Axle/Fusée	1
2	RF-024(C)	8.50x10" LE_Main Wheel Assy/ Roue Freinée	1
1	EA-010.1N(B)	2P32-10-4_Brake Caliper / Etrier de frein	1
REP	PART NUMBER	DESCRIPTION	Qty

5.1. Wheel 10" LE Beringer Kit Axle/Fusée



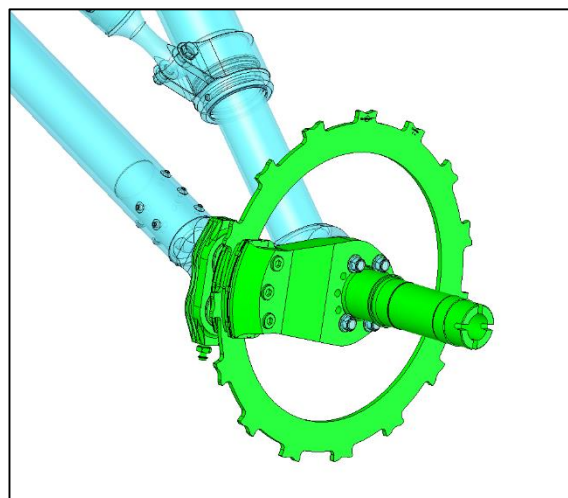
4	BGE-034(A)	Bearing ring / Bague appui rlt	1
3	MS24665-362	Cotter Pin/Goupille fendue 3.175x63.5	1
2	ECR-006(A)	1.5" Threaded cap / Bouchon ecrou	1
1	FUS-014.3(A)	10" Axle/Fusée	1
REP	PART NUMBER	DESCRIPTION	QTY.

5.2. Caliper Brake Assembly



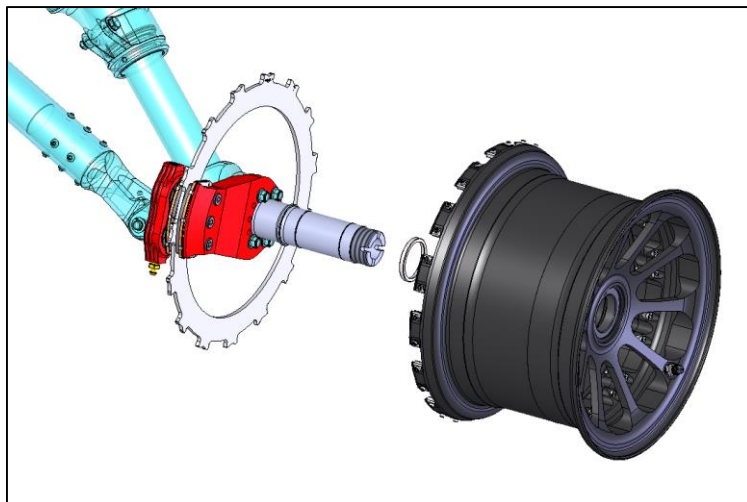
- Remove the 4 nuts that are on the landing gear
- Assemble the brake caliper (Item 01) on the studs
Torque Nuts per table in section §2)

Note: Caliper must be oriented fore or aft with the bleeder fitting facing down.



5.3. Wheel Assembly

- Put the grease between the bearing and the axle (Grease type BelRay)
- Put the bearing Ring (BGE-034) on the axle.
- Assembly Wheel on the axle and position the disk in to the slot.



5.4. Verify the wheel position

- Check that the disk does not extend past the clips..

Note: The Picture to the right shows the normal position of a new kit. As the brake pads wear, the disk will move outboard.



5.5. Axle Cap Assembly

- Tighten the threaded Cap (ECR-006) by hand until contact.
- Insert the cotter pin (MS24665-362).
- Install the safety wire in the groove to limit lateral motion of the disk.

