



TSB # 21-2014

March 18, 2014

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TO:
ATTN:
SUBJECT: Dual Adapter Ring Upgrade

FIX-ON-FAILURE UPDATE: (Failure Code 21.14)
6000 series air-seeders prior to sn: 41466As-01
7000 series air-seeders prior to the 2014 model year

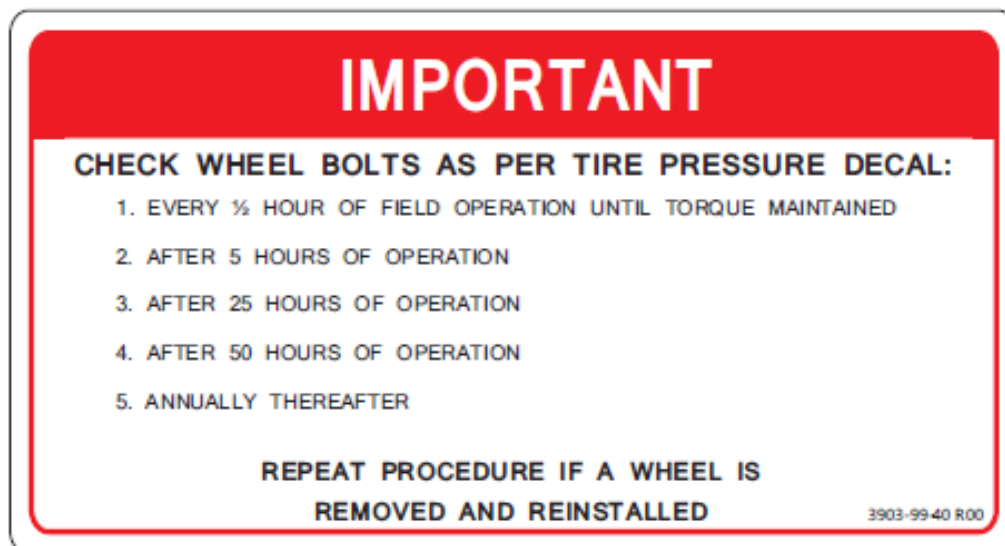
BACKGROUND:

A change was made for the model year 2014 7000 series air-seeders and 6000 series air-seeders after sn: 41466AS-01. The dual adapter ring used to connect the inner rim to the outer rim will now utilize a wheel stud instead of a standard wheel bolt. The wheel stud provides more elongation than a bolt, resulting in a more positive connection and improved performance in the field.

There have been reports from the field indicating repeat bolt failures when the wheel bolt torque procedures were not followed closely. This TSB provides details on how to convert the older tanks to use the new dual adapter ring with wheel studs.

CORRECTIVE ACTION:

- Use the appropriate table to order the parts required to upgrade to the new style dual adapter rings.
- Follow the appropriate instructions on page 3 and 4 when re-installing the new adapter rings/duals.
- It is critical to ensure the customer is following the re-torque procedure





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SUBJECT: Dual Adapter Ring Upgrade

7000 series air-seeders

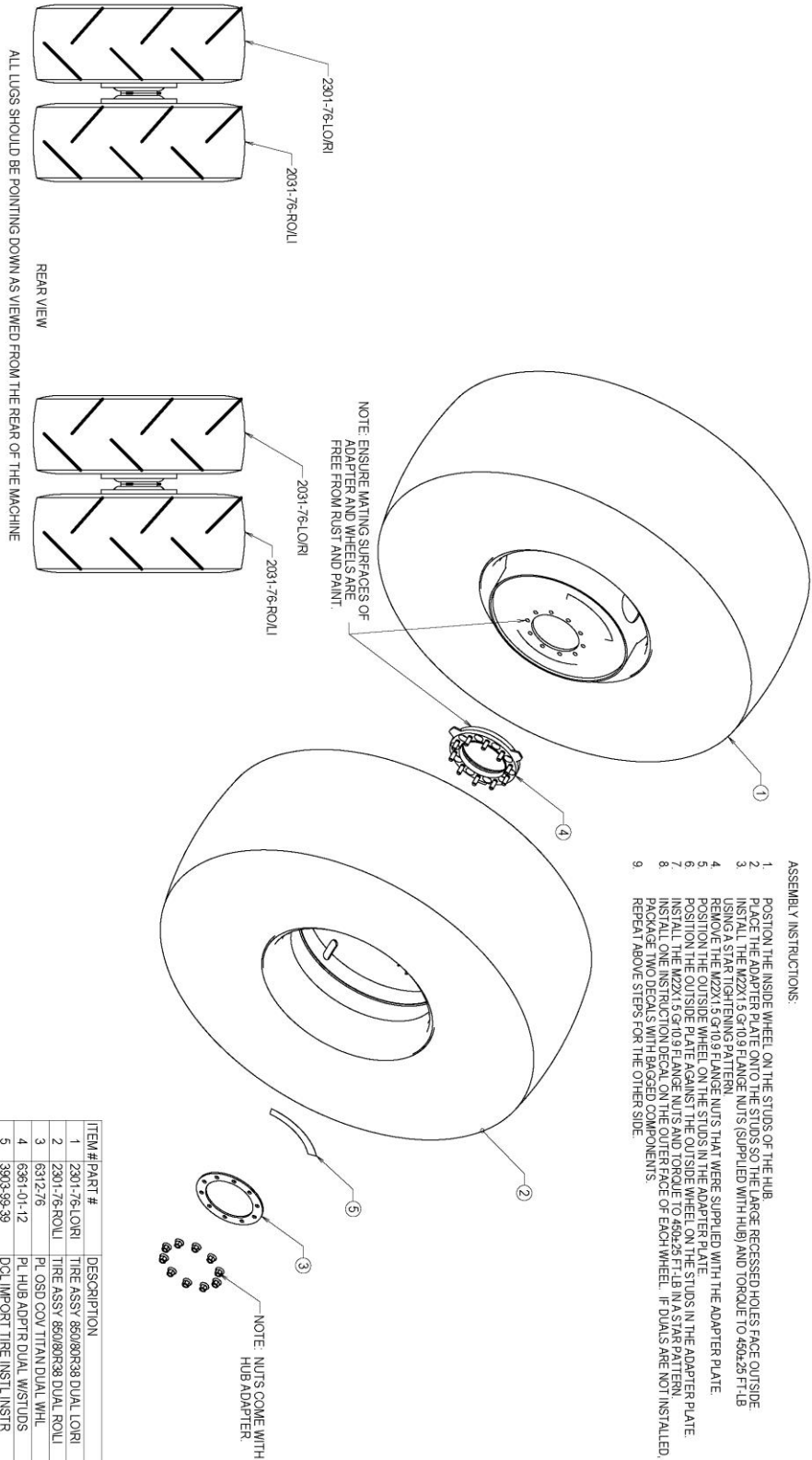
Part Number	Qty. per unit	Description	Dealer cost	List cost
6361-01-11	2	Dual Adapter Ring – 7000 series		
2200-86-11	20	Wheel Stud		
2200-86-12	20	Flange Nut		

6000 series air-seeders

Part Number	Qty. per unit	Description	Dealer cost	List Cost
6312-77-01	2	Dual Adapter Ring – 6000 series		
2200-85-21	20	Wheel Stud		
2200-70-12	20	Flange Nut		

Contact your local dealer for Parts availability and pricing.

7000 SERIES AIR-SEEDERS



- ASSEMBLY INSTRUCTIONS:
1. POSITION THE INSIDE WHEEL ON THE STUDS OF THE HUB.
 2. PLACE THE ADAPTER PLATE ONTO THE STUDS SO THE LARGE RECESSED HOLES FACE OUTSIDE.
 3. INSTALL THE MZZX1 5 G109 FLANGE NUTS (SUPPLIED WITH HUB) AND TORQUE TO 400±25 FT-LB.
 4. REMOVE THE MZZX1 5 G109 FLANGE NUTS THAT WERE SUPPLIED WITH THE ADAPTER PLATE.
 5. REMOVE THE MZZX1 5 G109 FLANGE NUTS THAT WERE SUPPLIED WITH THE ADAPTER PLATE.
 6. POSITION THE OUTSIDE WHEEL ON THE STUDS IN THE ADAPTER PLATE.
 7. POSITION THE OUTSIDE WHEEL AGAINST THE OUTSIDE WHEEL ON THE STUDS IN THE ADAPTER PLATE.
 8. INSTALL THE MZZX1 5 G109 FLANGE NUTS AND TORQUE TO 450±25 FT-LB IN A STAR PATTERN.
 9. INSTALL ONE INSTRUCTION DECAL ON THE OUTER FACE OF EACH WHEEL. IF DUALS ARE NOT INSTALLED, REPEAT ABOVE STEPS FOR THE OTHER SIDE.

TOLERANCES UNLESS OTHERWISE SPECIFIED:		DIMENSIONS IN INCHES		DIMENSIONS IN MILLIMETERS	
ANGLES	± 1°	FRACTIONS	± 1/16"	DECIMALS	± 0.005"
HOLE DIA.	± 0.0015"	FRACTIONAL HOLES		HOLES	± 0.0015"
AXES	± 0.005"	A	± 0.005"	B	± 0.010"
		B	± 0.010"		
REV	DATE	DESCRIPTION	BY	CHK	APP
0	9-Nov-12	COMPLETED DRAWING			
1	12-Jul-13	CORRECTED ASSEMBLY INSTRUCTIONS TO REFERENCE STUDS (AND BOLTS)			
2	23-Jul-13	REMOVED 2208-86-12; NOW PART OF 6361-01-12			

ITEM #	PART #	DESCRIPTION	QTY
1	2301-76-LO/RI	TIRE ASSY 850/80R38 DUAL LO/RI	2
2	2301-76-ROLL	TIRE ASSY 850/80R38 DUAL ROLL	2
3	6312-76	PL OSD COV TITAN DUAL WHL	2
4	6361-01-12	PL HUB ADPTR DUAL W/STUDS	2
5	3303-99-39	DCI IMPORT TIRE INSTL INSTR	4

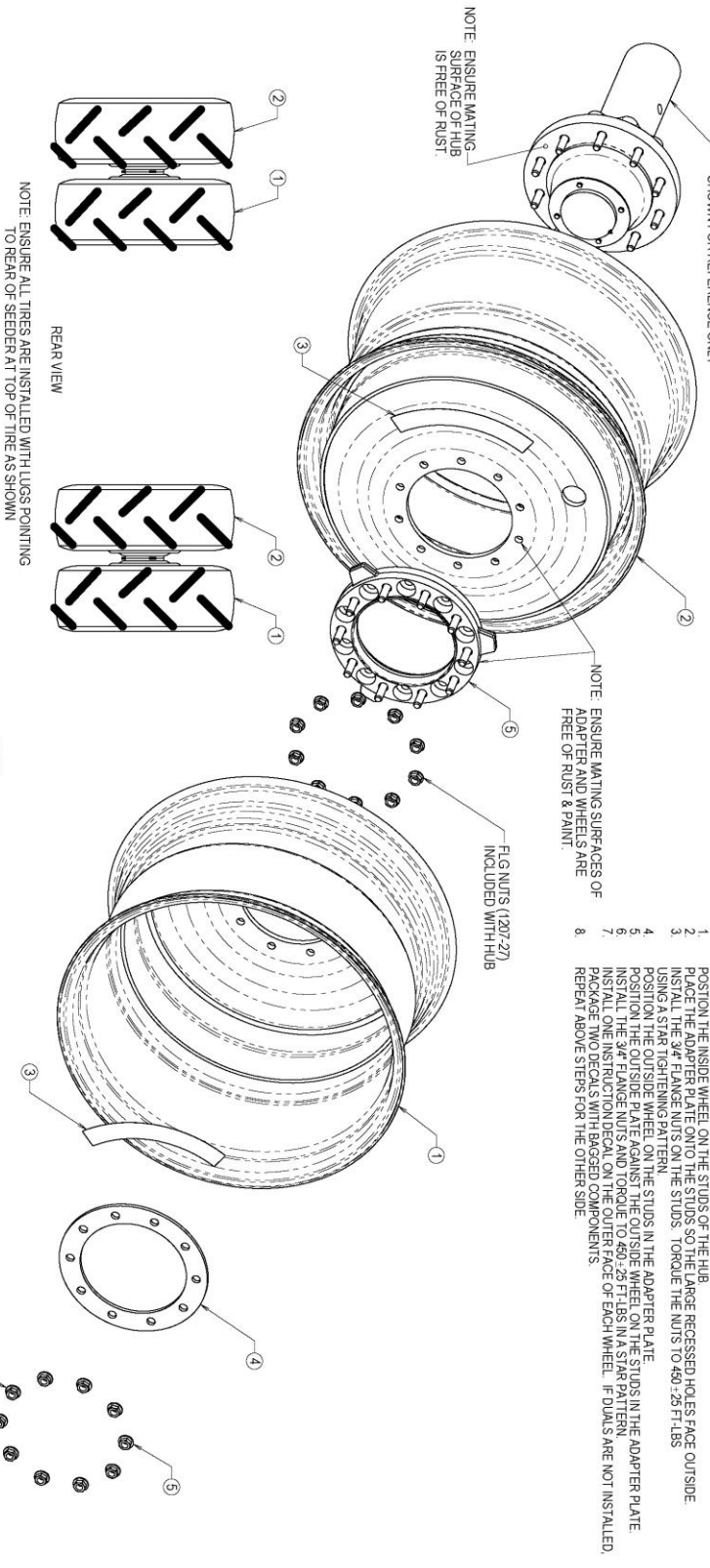
DOCUMENT NO.		6361-01-01		WEIGHT		616.2 LB		COLOR		NONE	
DATE		09/NOV/12		SCALE		1:20		PAGE		1 OF 1	
DWT		13408		NBS				FRAC			
HLS		NBS		HLR				FRAC			
HLS		NBS		HLR				FRAC			
HLS		NBS		HLR				FRAC			

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6000 SERIES AIR-SEEDERS

NOTE: NOT ALL PARTS ARE INCLUDED IN BOM. SOME ARE INCLUDED IN PURCHASED PKGS 2301-64L & 2301-64R

ITEM #	PART #	DESCRIPTION	QTY
1	2301-64L	TIRE ASSY L 650/75R34 RIW	2
2	2301-64R	TIRE ASSY R 650/75R34 RIW	2
3	3903-99-39	DCI IMPORT TIRE INSTL INSTR	4
4	6312-76	PL OSD COV TITAN DUAL WHL	2
5	6312-77	PL HUB ADPTR DUAL 6000 W/STUDS	2



EXISTING HUB & SPINDLE SHOWN FOR REFERENCE ONLY

NOTE: ENSURE MATING SURFACE OF HUB IS FREE OF RUST

NOTE: ENSURE MATING SURFACES OF ADAPTER AND WHEELS ARE FREE OF RUST & PAINT

FLG NUTS (1207-27) INCLUDED WITH HUB

FLG NUTS (1207-27) INCLUDED IN WITH 6312-77

REAR VIEW

NOTE: ENSURE ALL TIRES ARE INSTALLED WITH LUGS POINTING TO REAR OF SEEDER AT TOP OF TIRE AS SHOWN

NOTE: ONLY RIGHT SIDE IS SHOWN. TIRES NOT SHOWN ON WHEELS FOR CLARITY

ASSEMBLY INSTRUCTIONS:

- POSITION THE INSIDE WHEEL ON THE STUDS OF THE HUB.
- PLACE THE ADAPTER PLATE ONTO THE STUDS SO THE LARGE RECESSED HOLES FACE OUTSIDE.
- INSTALL THE 3/4" FLANGE NUTS ON THE STUDS. TORQUE THE NUTS TO 450 :26 FT-LBS USING A STAR TIGHTENING PATTERN.
- POSITION THE OUTSIDE WHEEL ON THE STUDS IN THE ADAPTER PLATE.
- POSITION THE OUTSIDE PLATE AGAINST THE OUTSIDE WHEEL ON THE STUDS IN THE ADAPTER PLATE.
- INSTALL THE 3/4" FLANGE NUTS AND TORQUE TO 450 :26 FT-LBS IN A STAR PATTERN.
- REPEAT ABOVE STEPS FOR THE OTHER WHEEL. IF DUALS ARE NOT INSTALLED, PACKAGE TWO DECALS WITH BAGGED COMPONENTS.
- REPEAT ABOVE STEPS FOR THE OTHER SIDE.

TOLERANCE ANGLES

ANGLE **FRACTIONS** **±** **INCHES**

A 1/16" ± 0.0005

B 1/32" ± 0.0010

C 1/64" ± 0.0020

D 1/32" ± 0.0010

E 1/16" ± 0.0020

F 1/32" ± 0.0010

G 1/16" ± 0.0020

H 1/32" ± 0.0010

I 1/16" ± 0.0020

J 1/32" ± 0.0010

K 1/16" ± 0.0020

L 1/32" ± 0.0010

M 1/16" ± 0.0020

N 1/32" ± 0.0010

O 1/16" ± 0.0020

P 1/32" ± 0.0010

Q 1/16" ± 0.0020

R 1/32" ± 0.0010

S 1/16" ± 0.0020

T 1/32" ± 0.0010

U 1/16" ± 0.0020

V 1/32" ± 0.0010

W 1/16" ± 0.0020

X 1/32" ± 0.0010

Y 1/16" ± 0.0020

Z 1/32" ± 0.0010

REVISION HISTORY

REV	DATE	DESCRIPTION
1	14406-13	INITIAL 2300-76 12-AS NUTS NOW INCLUDED WITH HUB
2	15404-13	PREL CD 6312-75 W/ 6312-77 (NWD) 12/29/13 12-UP/D ASSY NOTES
3	17346-12	CHANGED OUTER DUAL TORQUE TO 450 FT-LBS. 3903-99-39
4	19404-11	12/20/11 12-25-72
5	19404-11	12/20/11 12-25-72
6	19404-11	12/20/11 12-25-72
7	19404-11	12/20/11 12-25-72
8	19404-11	12/20/11 12-25-72
9	19404-11	12/20/11 12-25-72
10	19404-11	12/20/11 12-25-72
11	19404-11	12/20/11 12-25-72
12	19404-11	12/20/11 12-25-72
13	19404-11	12/20/11 12-25-72
14	19404-11	12/20/11 12-25-72
15	19404-11	12/20/11 12-25-72
16	19404-11	12/20/11 12-25-72
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96	19404-11	12/20/11 12-25-72
97	19404-11	12/20/11 12-25-72
98	19404-11	12/20/11 12-25-72
99	19404-11	12/20/11 12-25-72
100	19404-11	12/20/11 12-25-72

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ASSY TIRE 650/75R34 DUAL NEW

DATE: 05-MAR-10 SCALE: 1:10 SIZE: B PKG: 1 OF 1

INSTR: MRP NA/LB: COLOR: NONE