



ABI 3200/ABI 3224A Tailwheel Assembly
Installation Instructions
FAA-PMA PQ4204CE
ABI-3200-II, REV A, 12/7/2022

This ABI 3200/ABI 3224A Assembly is an FAA-PMA direct replacement for Scott 3200/3200A Assembly. The installer is responsible for ensuring that the assembly is installed in accordance with the original equipment installation instructions.

Removal & Installation Instructions of 3200/3224A assembly:

- A)** Following airframe manufacturer's instructions, properly raise and support the tail of the aircraft off the ground.
- B)** Disconnect & inspect the steering springs & chains from the tailwheel assembly.
- C)** Remove the old assembly from the tailspring, inspect the attach bolt and tail spring for correct arch. The center pivot spindle should angle back away from the airplane 5 to 7 degrees when un-loaded and be perpendicular to the ground at maximum gross weight. (Note: ABI recommends replacement of all attachment hardware.)
- D)** Re-install and adjust in reverse procedure, following the original airframe manufacturers installation instructions. (NOTE: Tension on connector spring is not required or advisable. Over tension will create binding of the steering arm causing it to bend and damage internal parts. Connector springs and connector chain should be just slack. ABI recommends connecting the connector springs to an eye-bolt, not to the rudder arm.
- E)** All ABI 3200 series assemblies are pre-lubed at the factory with Exxon-Mobile SCH-100 grease. Over greasing of the axle will force the wheel seals (PN: ABI-1863) out against the bearing pre-load spacer (PN: ABI-3227-00) causing premature wear on the seals.

PMA Notice:

The ABI 3200/ABI 3224A assembly carries a PMA marking (FAA-PMA # PQ4204CE), which identifies it as having been fully tested, inspected and qualified to meet the FAA specifications and requirements. After final PMA approval, substitution of critical parts, change of process or materials is not permitted without re-qualification of parts and pieces and resubmitted to the FAA for approval. FAA regulations subject Alaskan Bushwheel Inc., 81 E Commercial Drive Palmer, Alaska 99645, and the user to constant surveillance that all quality assurance materials and processes contents are maintained to provide replacement parts that are the same as the Original Equipment parts in the assembly.

ABI, LLC.
81 E Commercial Drive, Palmer, AK 99645
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ABI-3224A complete Assembly weight: 8.2lbs.

SPACER POSITIONS ARE INTERCHANGEABLE

NOTES:
1. TWO BOLT HEAD OPTION NOT AVAILABLE FOR THIS ASSEMBLY

ITEM	ITEM NUMBER	DESCRIPTION	DATE	APPROVED
1	ABI-3224A	WHEEL AND FORK ASSEMBLY	1/17/2006	JAM
2	ABI-32150	HEAD ASSEMBLY	5/17/2006	JAM
3	ABI-32150	SPACER	4/12/2007	MW
4	ABI-32150	LEAF SPRING ADAPTER 1.40"	4/12/2007	JAM
5	ABI-32150	LEAF SPRING ADAPTER 1.42"	4/12/2007	JAM
6	ABI-32150	LEAF SPRING ADAPTER 1.44"	4/12/2007	JAM
7	ABI-32150	THREAT PLATE ASSEMBLY	3/20/2014	JIP
8	ABI-32150	SPRING COMPRESSION	2/12/2016	JIP
9	ABI-32150	LOCK CAP UPPER		
10	ABI-32150	THREAT WASHER		
11	ABI-32150	SYSTEMS ASSEMBLY		
12	ABI-32150	LEAF CAP LOWER		
13	ABI-32150	HEAD ASSEMBLY		
14	ABI-32150	WHEEL FORK		
15	ABI-32150	BEARING		
16	ABI-32150	BEARING RACE		
17	ABI-32150	BEARING RACE		
18	ABI-32150	WASHER		
19	ABI-32150	WASHER		
20	ABI-32150	WASHER		
21	ABI-32150	WASHER		
22	ABI-32150	SPACER		
23	ABI-32150	SPACER		
24	ABI-32150	SPACER		
25	ABI-32150	SPACER		
26	ABI-32150	WASHER		
27	ABI-32150	WASHER		
28	ABI-32150	WASHER		
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35	ABI-32150	WASHER		
36	ABI-32150	WASHER		
37	ABI-32150	WASHER		
38	ABI-32150	WASHER		

REVISIONS AND COMMENTS:

REV.	DESCRIPTION
C	UPDATED DRAWING X, 10 X SHEET III
D	UPDATED DRAWING X, 12, 1, 3, 5
E	UPDATED DRAWING
F	UPDATED DRAWING
G	UPDATED DRAWING AND NOTES FOR NEW PARTS
H	REVISION 11, REPLACED ASSEMBLY OPTION

DATE: _____

BY: _____

FOR: _____

SCALE: 1:1 (BRIGHT) | SHEET 1 OF 1

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