

# Cleveland

Wheels & Brakes

Parker Hannifin Corporation

**Aircraft Wheel & Brake**

1160 Center Road, P.O. Box 158

Avon, Ohio 44011 USA

1-800-BRAKING (272-5464)

216-937-1272 • FAX 216-937-5409

# SERVICE BULLETIN

## CONVERTING EARLY PIPER AZTEC WHEEL (3080B AND 3080D) BRAKE ASSEMBLIES (37-200-2 AND 37-200A) TO CURRENT PRODUCTION MODELS (40-131 WHEEL, 30-96 BRAKE) FIELD CONVERSIONS

**PURPOSE:** This procedure will outline the steps for converting early Piper Aztec wheel and brake assemblies to current production models.

**SCOPE:** Conversion kit number 199-63 will convert one aircraft. Each kit will contain the following parts:

| <u>Quantity</u> | <u>Part Number</u> | <u>Description</u> |
|-----------------|--------------------|--------------------|
| 2               | 30-96              | Brake Assembly     |
| 2               | 164-05700          | Brake Disc         |
| 2               | 166-07400          | Decal              |

**PROCEDURE:** Most part numbers referred to in this procedure are taken from Piper Aircraft Corporation parts catalog for PA-23 Aztec. Piper numbers are shown in brackets ( ).

### A. Removal

1. Block brake pedal in retracted position to prevent brake pedal movement during conversion.
2. Remove four (4) through bolts (751 470) and washers (407 585) to remove back plate assemblies (752 768) from each brake cylinder (451 717, 551 722 or 551 709).
3. Remove wheel assembly (451 768, 551 759 or 756 562) from axle.
4. Remove both hydraulic hose assemblies (17766-28) from brake cylinders (451 717, 551 722 or 551 709).
5. Remove six (6) nuts (404 888), washers (407 565) and bolts (401 329) which secure torque plate assembly (751 535) to brake mounting flanges.
6. Remove complete brake assembly (451 717, 551 709 or 551 722) from axle.



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## B. Conversion

1. Remove nut (404 888), washer (407 565), and bolt (400 002) from inner wheel half assembly.
2. Remove brake disc assembly (751 674 or 754 567) from inner wheel half assembly.
3. Install new brake disc assembly (164-05700) into inner wheel half assembly aligning holes in brake disc assembly with holes in inner wheel half.
4. Install bolt (400 002), washer (407 565) and nut (404 888). Torque up to 90 in-lbs.
5. Apply nameplate 166-07400 to outer wheel half (753 156) next to existing nameplate.

## C. Installation

1. Install brake assembly 30-96 (551 721) on axle. Align holes with brake mounting flange on axle.
2. Install six bolts (401 329), washers (407 565) and nuts (404 888). Torque up to 90 in-lbs.
3. Attach both hydraulic hose assemblies (17766-28) to fittings (AN815-4D).
4. Remove four through bolts (751 470) and washers (407 585) to remove back plate assembly (755 840) from each brake cylinder.
5. Install wheel assembly 40-131 (551 768) on axle.
6. Install four through bolts (751 470) and washers (407 585) through brake cylinders to fasten back plate assemblies. Torque to 90 in-lbs.
7. Check for correct fluid level in brake cylinder reservoir assembly.
8. Bleed all wheel cylinders to remove air from lines.

### LOG BOOK ENTRY:

#### A. Record the following information:

- 1.1 Wheel and brake conversion performed in accordance with Piper Service Kit Number 760 986.
  - a) Converted to wheel number 551 768
  - b) Converted to brake number 551 721