

ACCESSORY KIT NO. AK-120A
 Supersedes AK-120

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DATE: December 20, 1974

TITLE: Oversize Tire Accessory Kit
 (For Use In Conjunction With 6.00X6 Type III -
 4 Ply Main Gear Tires)

MODELS AFFECTED: All Model AA-1 and AA-1A

WEIGHT AND BALANCE CHANGE:
 WEIGHT INCREASE: 3.00 Lbs.
 ARM: 89.00 In.

Parts List

Kit No. AK-120-1 (Includes all items necessary for the installation)
 Kit No. AK-120-2 (Includes all items necessary for the installation
 less tires and tubes)

<u>Quantity</u>	<u>Part No.</u>	<u>Description</u>
1	702067-501	Fork Assembly
1	804042-1	Placard
2	AN380-4-8	Cotter Pin
1	MS24665-353	Cotter Pin
*2	6.00X6 Type III - 4 Ply	Tire - Main
*2	6.00X6	Tube - Main

Items not included in AK-120-2.

Description of Installation

1. Installation of 6.00X6 main gear tires and extended nose gear fork.

NOTE: IMPORTANT

- a. The 6.00X6 tires and the extended nose fork (702067-501) must be installed in conjunction. Neither item may be installed without the other.
- b. Spring Plunger Elimination Kit No. SK-107 (ordered separately) must be installed on Aircraft AAL-0001 through AAL-0224 in conjunction with this Accessory Kit to maintain proper friction and prevent shimmy of the nose gear.
- c. The original wheel fairings cannot be used in conjunction with this Accessory Kit and must be removed if installed, however, Large Wheel Fairing Installation Kit, part number AK-126, may be ordered and installed on the models affected.

2. Estimated time to accomplish this installation is two (2) man hours.

Installation Instructions

NOTE: The weight must be removed from the landing gear for this installation. Position the forward jacks just aft of the cowling. The rear jack can be the cradle type, or the hook type that attaches to the rear tie-down ring.

CAUTION: A rubber pad and wood block should be placed between the airframe and jack.

NOTE: Revision "A" incorporates Model AA-1A and adds part number for Large Wheel Fairing Installation Kit.

1. Main Gear

- a. Refer to Section 4 (Wheels, Tire, and Brakes) of the Two-place Service Manual, remove existing main gear tires and tubes, and install one (1) 6.00X6 Type III 4 ply tire and one (1) 6.00X6 tube on each main landing gear wheel. Two (2) AN380-4-8 cotter pins are provided with this kit for safteying the axle nuts.
- b. Inflate main gear tires to 19 psi.

2. Nose Gear

- a. Refer to Section 4 (Wheels, Tire, and Brakes and Nose Landing Gear) of the Two-place Service Manual and remove and discard the existing nose gear fork. (NOTE: Retain the thrust bearing located between the strut swivel and the existing nose gear fork.)
 - b. Apply general purpose grease per MIL-G-7711 or equivalent to the strut swivel, place the thrust bearing in the 702067-501 extended fork, and install the extended fork.
 - c. Apply general purpose grease per MIL-G-7711 or equivalent to the fork attach hardware and assemble in the following order: one (1) 1.6 diameter flat washer; two (2) Belleville washers (wider side of both washers to face up); two (2) Belleville washers (wider side of both washers to face down); one (1) AN960-1016 washer; and, one (1) AN320-10 nut.
 - d. Tighten nut to produce friction of 10-13 lbs. force along axle center line.
 - e. Install one (1) MS24665-353 cotter pin (supplied in Accessory Kit) and recheck friction per step d. if the AN320-10 nut was adjusted to allow cotter pin insertion.
3. Remove and discard the existing tire pressure placard from the glove box door and install the 804042-1 placard supplied in the Accessory Kit. (NOTE: Clean surface thoroughly with isopropyl alcohol prior to installing placard.)
4. NOTE:
- a. Check nose gear fork frequently and always maintain 10-13 lb. drag when fork is rotated.
 - b. All wheels and tires are balanced to within 5 in. lbs. at the factory. It is recommended that replacement tires be balanced to this specification to prevent excessive vibrations in the gear assemblies.
5. This completes installation of the extended nose gear fork and 6.00X6 main gear tires.