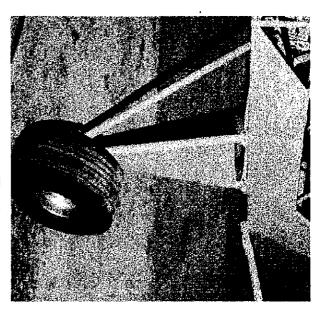
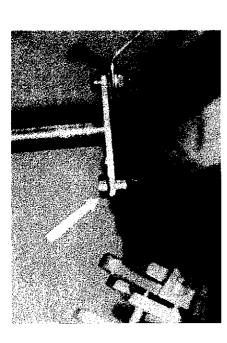
LANDING GEAR INSTALLATION Sub-Section "A"



Landing Gear Weldment to Fuselage



Steel torque plate



Trim as shown for late model torque plate

MODEL 4-1200

INSTALL AXLE

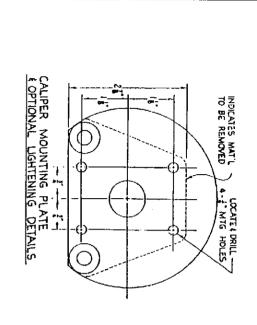
additional reaming as required. When a satisfactory on saw horses, temporarily pin the Weldments in are the two center pairs). With the fuselage mounted place with AN4-22 Bolts and check for fit. Use fuselage to .25". Weldment bushings and the matching tabs on the Ream the P/N 35003 and P/N 35004 Landing Gear STEP 1: fit, has been achieved, remove the gear legs. REAM AND FIT WELDMENTS (The Landing Gear mounting lugs

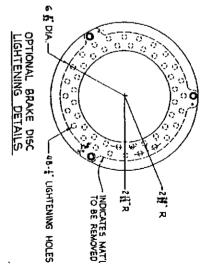
disc. See arrow in accompanying photo. center on the disc so grind off the outer surface of altered. The bushings must allow the calipers to the bushing !/8 in. so the caliper will center on the trimmed but will need the bushings in the plate cut to shape at the factory. These will not need to be plate to bracket with AN364-428 nuts and 91156 plate. Drill and ream the four holes to .25" four 1/8" pilot holes through the Caliper and backing of the Axle housing. Torque Plate. Clamp the Torque Plate to the bracket Use Fig. LG-A-1 as a template, and affix to the STEP 2: bolts. The later model steel Matco Torque plates are DRILL TORQUE PLATE HOLES Refer to Fig. LG-A-1. . Attach

STEP 3: TRIM AXLE MATERIAL

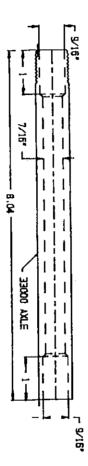
mately 0.5" too long). piece. Cut the Axle Material into two pieces 8.04" in half and trim later. The P/N 33000 Axle Material is supplied in one (+ or - .03") long.You can cut the Axle Material (The Axle stock is approxi-

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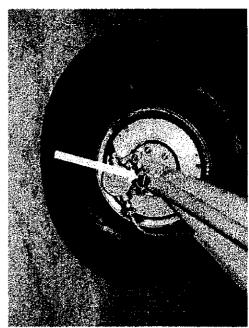


Brake Caliper And Disc Drilling Template Fig. IV LG-A-1

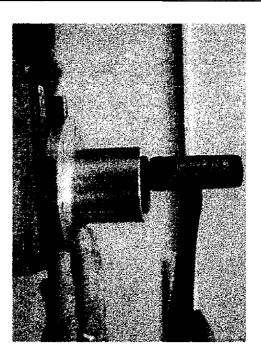


Optional Lightening Details Fig. LG-A-2

	0	The second of		d	
LG-A-2	Landing Gear	Sent. 1, 1993 Landing		4-1200 Sub-Section "A" Landing Gear Installation	4-1200
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Axle Lightening - Attach Bolt



Wheel Seal Installation

STEP 4: **INSERT AXLE**

can vary + or -1/16" shrink the Axle by putting it in the freezer. Heat the necessary to ream the Axle housing. If so, ream to Insert an Axle into the axle housing. inboard side of the Axle flush with the housing. differential. It is not absolutely necessary to have the from damaging the Axle. If installation is difficult, Axle housing with a heat gun and immediately insert .7500". Axle while the temperature extremes maximize size A soft hammer is recommended to keep It may be

save approximately 14 ounces total. If you are going Section "F" of this Section of the manual. to bore the threaded end of the Axle as shown in Fig. to install wheel pants on your aircraft, you will need lathe and drill bits. NOTE: OPTIONAL - Lighten the Axle per Fig. LG-A-3. LG-A-2. Wheel pant instructions are found in Sub-This procedure will require the use of a Electing to do this option, will

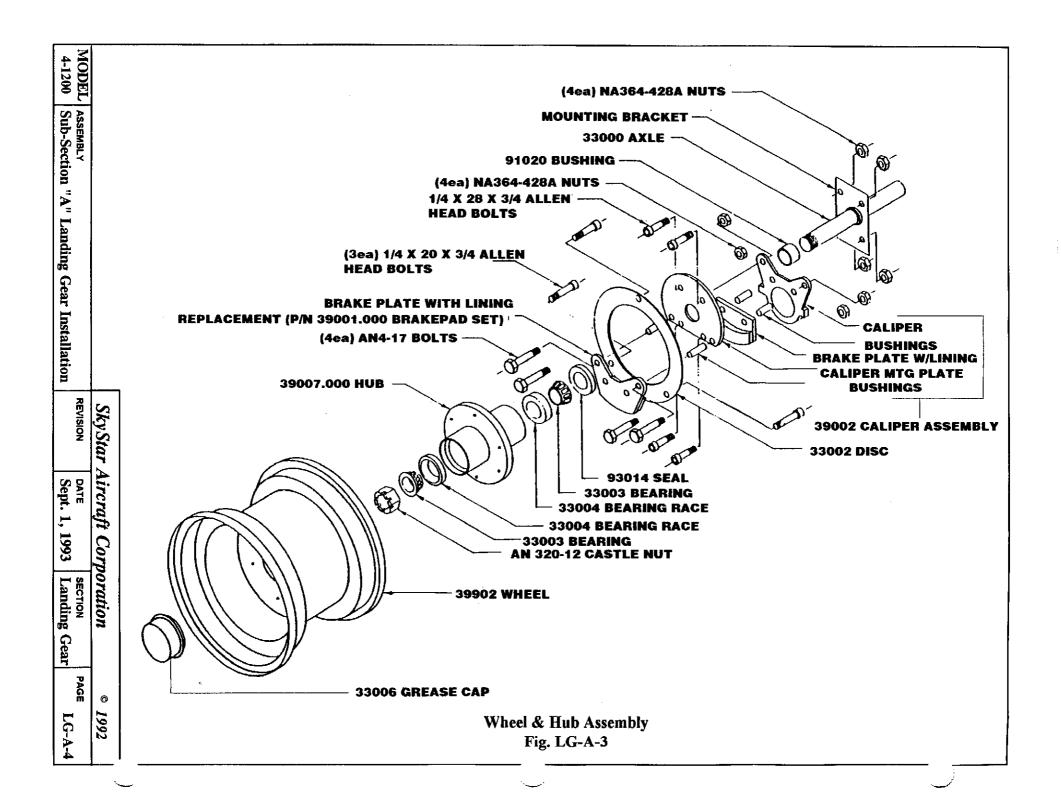
ASSEMBLE WHEEL

STEP 5: ASSEMBLE HUB & WHEEL

turers instructions, for detailed assembly procedure Axle, per Fig. LG-A-3. (refer to the wheel manufac-Assemble the P/N 36002 Hub and Wheel on the

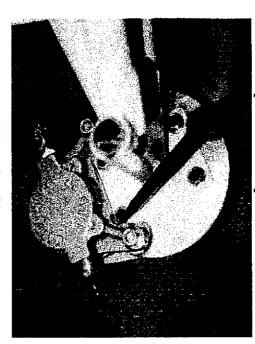
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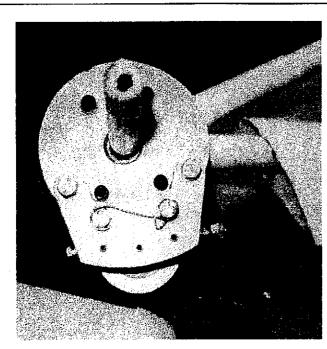




Relieve Caliper metal as required to clear screw head



Round corner of Mounting Plate as shown



Use Safety Wire

STEP 6: DRIVE SEAL - INSTALL NUT

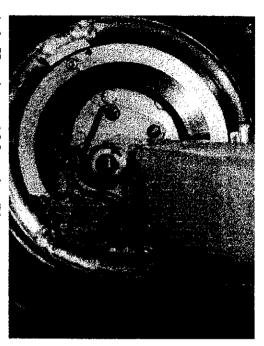
bushing seam and bearing inner race meet and will outside P/N 33003 outer races by tapping them in of the housing to obtain that dimension. should be 3/32" to 1/8" of threaded Axle extending down to the bearing. grease, install and lightly tighten the AN320-12 Nut bearing inner race. Pack the outer bearing with pinched between the P/N 91020 Spacer and the the Axle. This will keep the seal lip from getting Spacer in the Wheel before mounting the Wheel onto then you may drive seal flush. Install the P/N 91020 damage the seal lip. If your Hub is bored 0.75" deep, the away down causes the seal lip to ride where the 16 inch protruding. - see Photo. Driving the seal all the seal down tight against the bearing race, leave 1/ bore depth above the race is .625 (5/8") do not drive race. Install the wheel bearing seal P/N33014. If the bearing 33004 with grease and install in the outer just slightly smaller than the bearing bore. Pack inner place using a bearing driver or a large socket that is and record the measurement. Measure the depth of the inner wheel bearing bore beyond the Nut. The Axle can be moved in or out With the Nut in place, there Install inside

NOTE: It is not necessary to remove the Axle when painting, although it should be masked before sand blasting or painting.

TEP 7: DRILL AXLE AND HOUSING

With the Axles installed and adjusted for fit, drill a 1/8" hole through the Axle and housing, parallel to the fuselage attach bushings, and 3/8" from the inboard end of each Axle housing - see Fig. LG-A-2. Re-drill with a #13 drill and ream to .1865". The AN3-12A Bolt with appropriate AN960-10 Washer and AN365-1032 Nylock Nut can be installed at this time.

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Axle Housing and Mounting Plate



Option lightening



Retaining Nut

MODEL 4-1200

STEP 8: DRILL HOLE FOR COTTER PIN

and bind the Bearing. The Hub should be able to turn Hub Bearing. Take care not to over-tighten the Nut the AN320-12 Nut until there is no end play in the freely. Section With the AN3-12A Bolts installed on the Axles, turn

INSTALL BRAKE CALIPER

STEP 9: REMOVE WHEEL ASSEMBLY

allen screws. Safety wire on final assembly. assembly. Install the disc using the 1/4 28X3/4 in brake disc between pads of caliper and install wheel per. Safety wire drilled head bolts as shown. Slip Washers, and AN365-1032 Nuts supplied with cali-Caliper to the Gear Weldment using If the Gear has been painted, bolt the P/N 39015 Bolts, with

a coating of graphite impregnated grease. lubricant on brake caliper bushings. the paint to adhere properly. Use dry type silicone require extra degreasing and cleaning measures to get to do this after the parts have been painted or it will the fuselage - and other parts that require a "bearing" NOTE: Upon final assembly of the Landing Gear to fit on bolts - coat the bearing areas of the bolts with

STEP 10: INSTALL FITTINGS

TION Over tightening the fittings into the calipers of the Gear toward the rear attach bushing. on the Gear, the Fitting should point up the back leg the Caliper assemblies. will crack the calipers. Teflon tape or Rectorseal #5 to seal threads. CAU-Install two of the P/N 39005 Brake Line Fittings in With the Caliper installed Use

Fitting until painting and final assembly is complete. NOTE: Do not seat the ferrules on the Brake Line

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