

GEAR / WHEELS / BRAKE LINES



6G3-1 SPRING GEAR

Flat side of the gear is toward the front of the aircraft.



Zodiac CH 601 XL
Tricycle gear

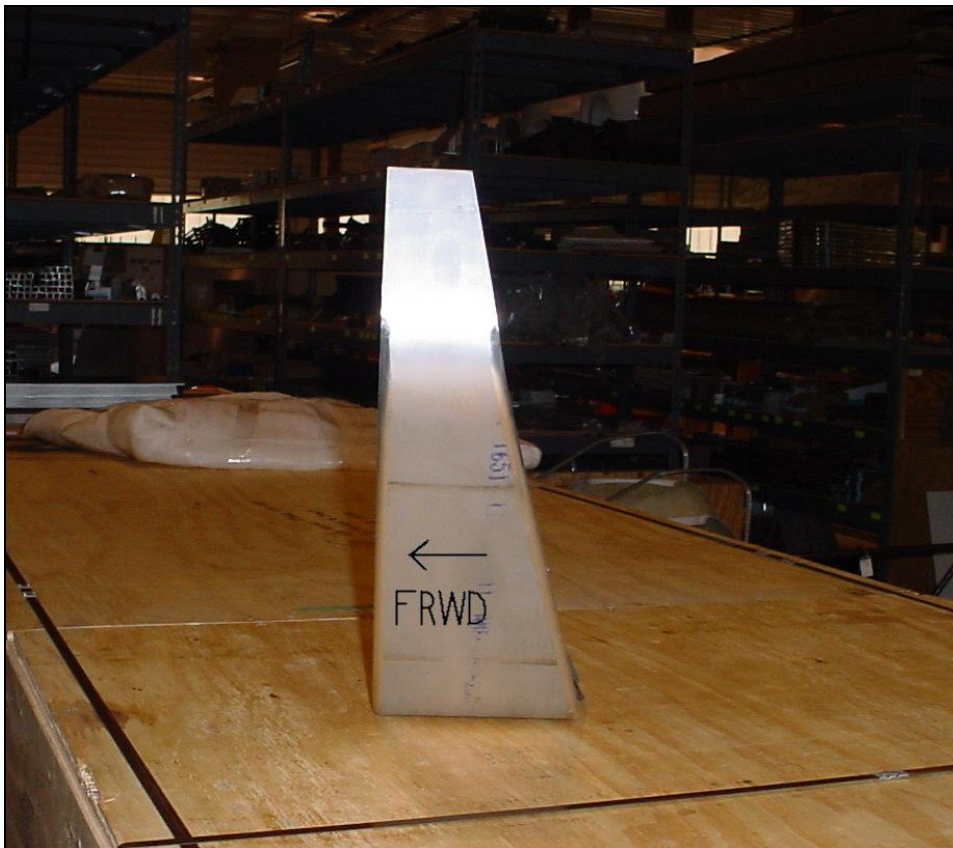


Photo of gear: shown in upside down position



LEFT WHEEL. Above photo shows gear installed opposite of the recommended direction.



Ref. top right diagram on drawing 6-G-3

1/8" rubber 8L2-2



Main Gear Support 6G3-4



Photo taken before the wing was installed to fuselage.

The gear is notched to fit between the welded $\frac{1}{2}$ " bolts welded on the main gear attachments 6B11-4. Above photo shows gear installed opposite of recommended direction.



Right side (brake lines run along the aft portion of the gear). Gear fits inside the Gear Channel 6B5-5. Above photo shows gear installed opposite of recommended direction.



Ref top diagram on drawing 6-G-3

File 3.5mm deep notches in gear to make room for 1/2" bolts welded on the main gear attachment 6B11-4

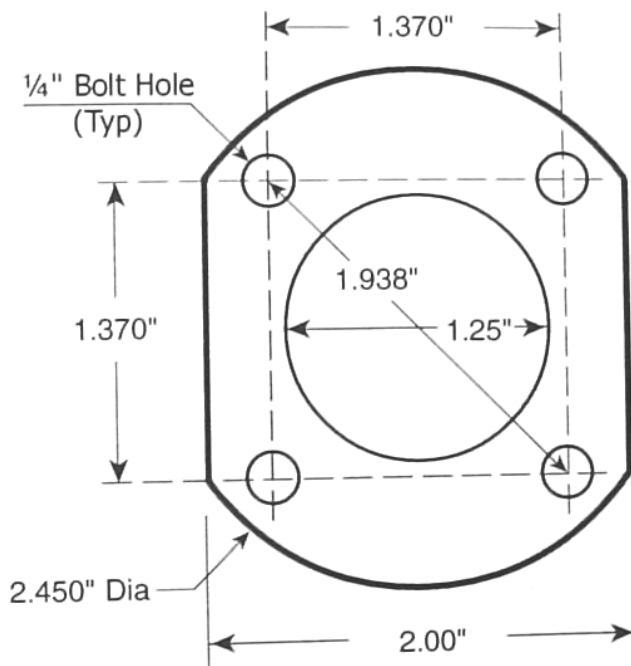
Photo of aft right side.



CRITICAL: The depth of the aft notches is critical – make sure they are not too deep.

Looking up at right rear.

Note the gap between the aft edge of the gear and the flange of the gear channel 6B5-5



500 X 5 Axle
This pattern matches axle part numbers 5013, 5015 and 5018.

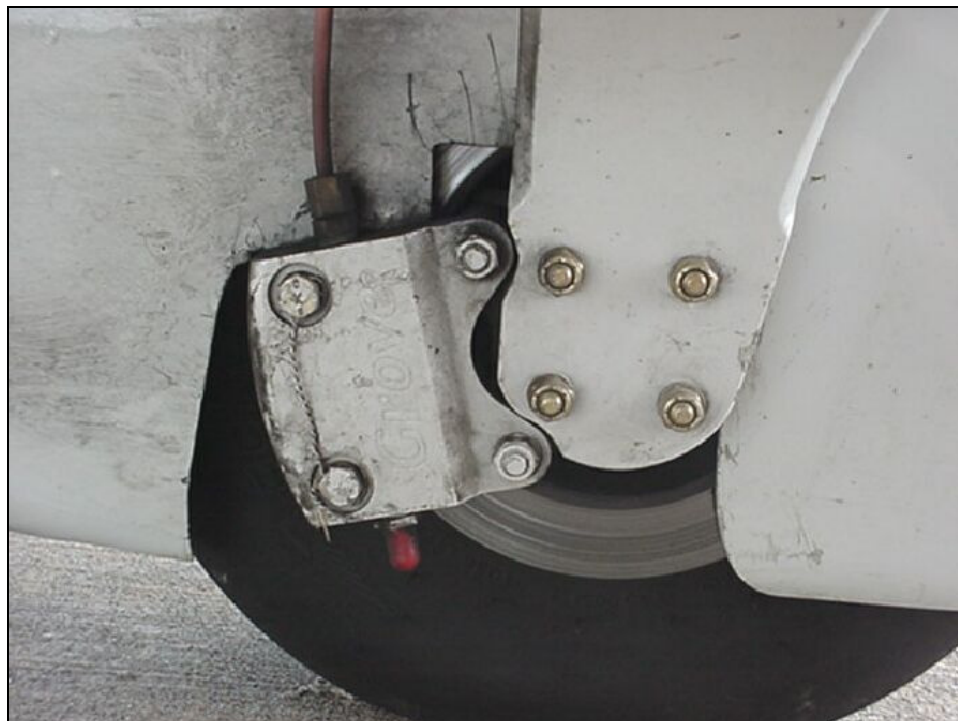
www.groveaircraft.com
500x5 wheels P/N 50-1



Front view

The Axle is centered on the bottom of the gear.

Axle P/N 5013: Curve is on the bottom



Caliper installed on the rear side Photo of left wheel. Above photo shows gear installed opposite of recommended direction.



Rear view



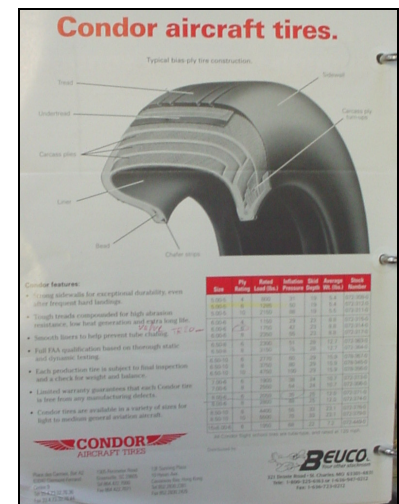
Right wheel
File notches in gear to make room for calipers. Above photo shows gear installed opposite of recommended direction.



Above photo shows gear installed opposite of recommended direction.

Size	Ply Rating	Rated Load (lbs.)	Inflation Pressure	Skid Depth	Average Wt. (lbs.)	Stock Number
5.00-5	4	800	31	.19	5.4	072-308-0
5.00-5	6	1285	50	.19	5.4	072-312-0
5.00-5	10	2150	88	.19	5.5	072-311-0
6.00-6	4	1150	29	.23	8.8	072-315-0
6.00-6	6	1750	42	.23	8.8	072-314-0
6.00-6	8	2350	55	.23	8.8	072-317-0
6.50-8	6	2300	51	.28	12.7	072-363-0
6.50-8	8	3150	75	.28	12.7	072-364-0
6.50-10	6	2770	60	.29	15.9	078-367-0
6.50-10	8	3750	80	.29	15.9	078-345-0
6.50-10	10	4750	100	.29	15.9	078-356-0
7.00-6	6	1900	38	.24	10.7	072-313-0
7.00-6	8	2550	54	.24	10.7	072-306-0
8.00-6	6	2050	35	.25	12.0	072-371-0
8.00-6	8	2800	48	.25	12.0	072-374-0
8.50-10	8	4400	55	.33	23.1	072-376-0
8.50-10	10	5500	70	.33	23.1	072-379-0
9.00-10	10	6500	88	.33	23.1	072-449-0

Tire pressure: 50 PSI



5.00-5 6 ply tires



Brake line routing along back side of gear. Above photo shows gear installed opposite of recommended direction.



Brake line goes up along the fuselage side. Above photo shows gear installed opposite of recommended direction.



BRAKE LINE CLIPS
024-0030

(Item not included in kit,
priced at approx. \$1.35
each)

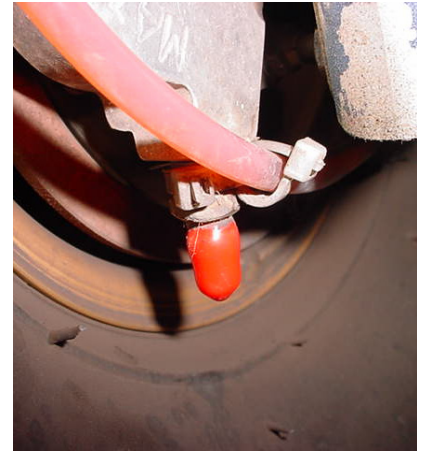
Installation: Self adhesive



Wing root detail – right side.



Brake line grommet in side of fuselage, behind spar and in front of the Front seat panel 6B15-4. Above photo shows gear installed opposite of recommended direction.



location of bleed screw at the bottom of the caliper (on one each wheel).

Remove the Allen screw from on top of the reservoir (mater cylinder)
Use a tooth pick to measure the brake fluid level.

NOTE: It is normal for some fluid to leak around the shaft, the brake system is vented around the shaft.



Dust protector
(Plastic cap removed)

Bleed screw
Remove the plastic cap from the bottom of the caliper.



Red aircraft brake fluid
Oil pump with flexible hose (1/4" OD)



Note: do not pump air in the system. Check there are no air bubbles in the system (keep pumping until all the air is out of the system)

Connect the hose to the bleed screw
With a wrench to turn the bleed screw 1/4 turn open.
Pump the brake fluid through the bleed screw.