

**Pre-Paint>Fuselage>Undercarriage>Assemble main wheels****Objectives of this task:**

In this task you will assemble the main wheels and tyres and fit the brake discs.

**Materials required:**

Cards # J21 'Main wheels'

Talcum powder for fitting the inner tube

**Assemble the main wheels**

Use a press or a vise to press the bearings into the main hub – use a socket with a slightly smaller diameter than the outer race of the bearing to press the bearings in with.

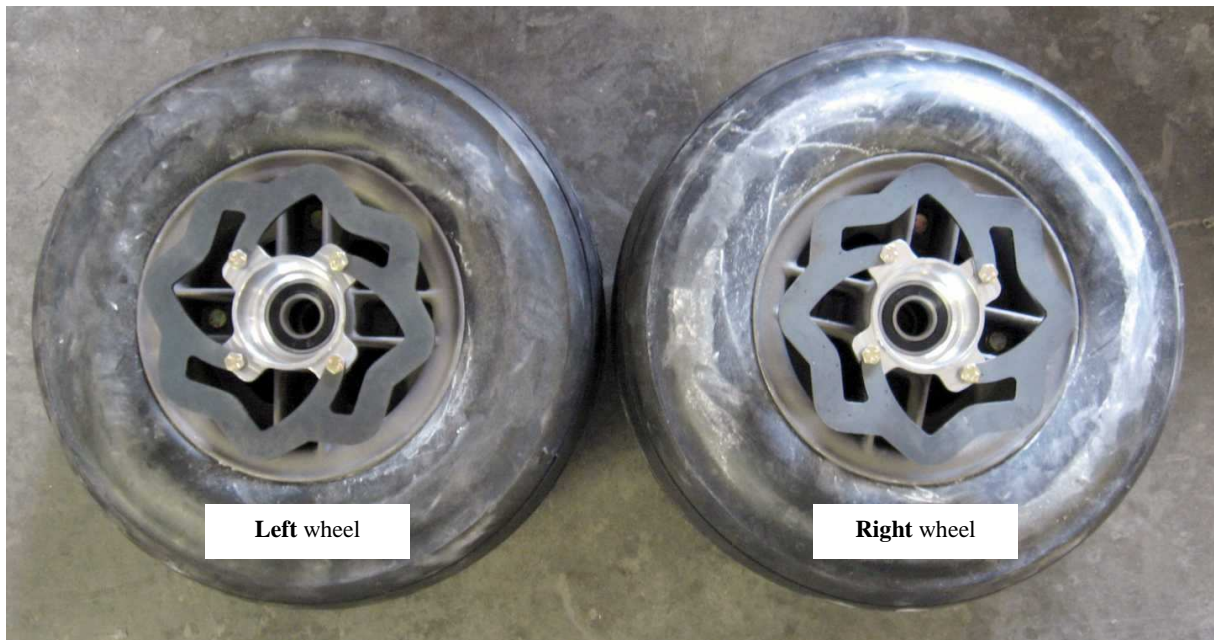
The outer bearing will sit slightly inside the hub while the inner bearing will be flush.

Do **not** press on the inner race – the bearing is not designed to take pressure in that direction.

Sprinkle some talcum powder inside the tyre and insert the inner tube. Slightly inflate the inner tube to prevent it becoming pinched then fit tyre and tube over the main hub and fit the outer rim to the main hub with the inner tube inflation valve facing out.

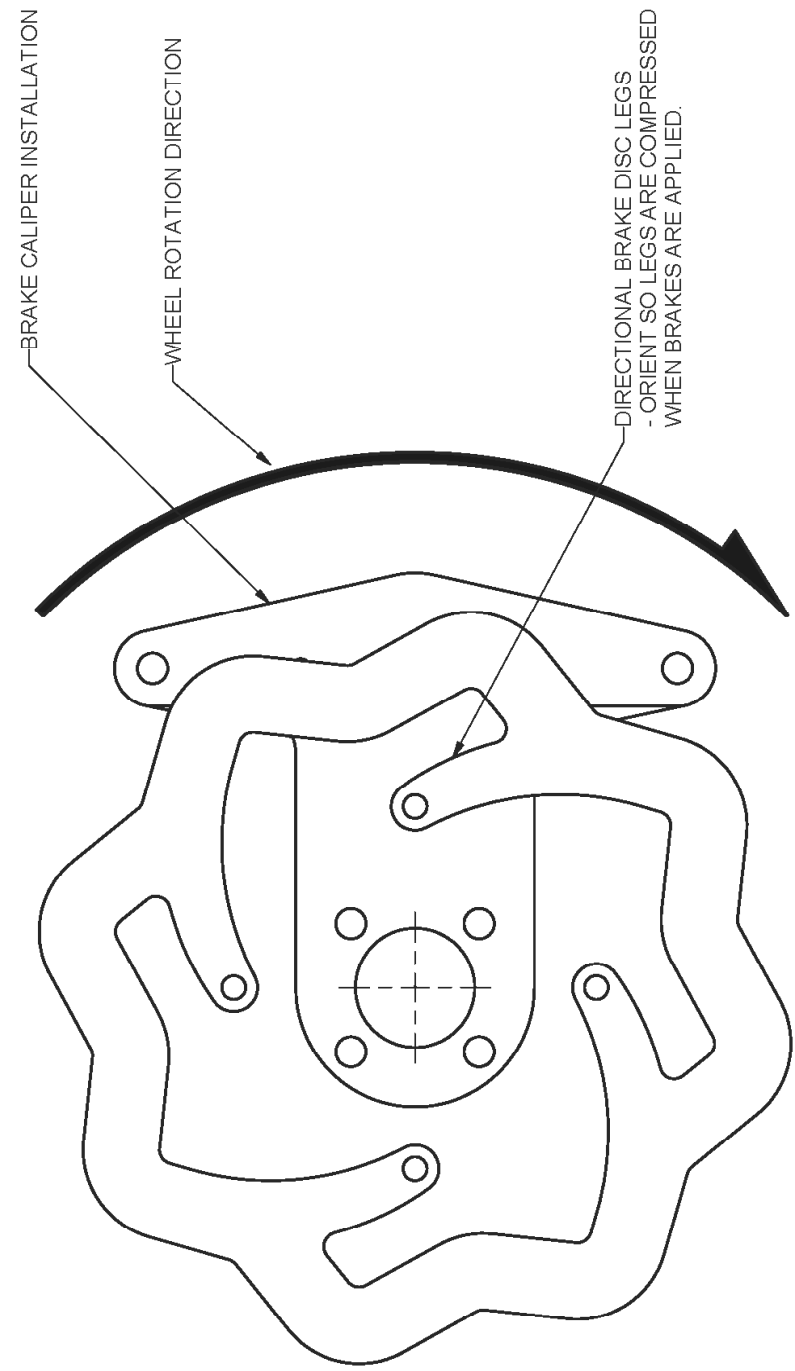
Bolt the outer rim to the main hub, but before tightening the bolts make sure that the inner tube is not being pinched by rotating the tyre and tube while holding the wheel still.

Fit the inner tube inflation valve through the hole in the outer rim and then tighten the bolts holding the outer rim to the main hub. Inflate the tube to a pressure of 30psi – the tyre will pop out to the final seated position on the rims so keep fingers away while inflating.



Fit the brake disc to each wheel. It is important that each disc is fitted in the correct direction of rotation as shown in the photo above and in the drawing on the next page. Fit each AN3-6A bolt though from the disc towards the wheel as shown above and secure with an AN960-10 (3/16") flat washer and Nyloc nut and tighten firmly.

Use chalk to mark each wheel as being either a left or a right wheel.



NOTE: "WAVY" DISC SHOWN WITH SINGLE BRAKE CALIPER.  
 SAME ORIENTATION APPLIES WITH DUAL CALIPER SYSTEMS.  
 DISC LEGS MUST BE ORIENTED TO BE COMPRESSED WHEN BRAKES ARE APPLIED.

PROJECTION	DIMENSIONS IN MILLIMETRES	DO NOT SCALE	AVTECH P/L	SCALE	1	8/11/05
		GENERAL TOLERANCES WHOLE NO'S $\pm 0.5$ ONE DEC. $\pm 0.25$ TOW DEC. $\pm 0.05$ ANGLES $\pm 0.5^\circ$	A.C.N. 010 786 973 HINKLER AIRPORT BUNDABERG 4670	NTS	ISS.	DATE
MATERIAL	N/A	DRAWN DS	TITLE DIRECTIONAL BRAKE DISC INSTALLATION.	DWG. No. 6A037A0D-1		
		APPR.		SHEET 1 OF 1		A4

This completes the *Pre-Paint > Fuselage > Undercarriage > Assemble main wheels* task.