

JABIRU ENGINE
PROCEDURE FOR VALVE CLEARANCE ADJUSTMENT

1. Remove spark plugs. (it's a nice opportunity to check the electrodes gap = 0.6 - 0.7 mm)
2. Open the 4 valve covers. If o-ring (seal) sticks to cover, keep it back in groove in same original position.
3. Rotate propeller till piston in cylinder No 1 (front right as seen from pilot position) is at top dead centre. (feel it with a plastic dip stick inserted in plug hole — high precision is not required)
4. Two possibilities are there:
 - a) both **cylinder 1** tappets are **free**, then **adjust valves A** as per diagram below.
 Or,
 - b) both **cylinder 1** tappets are **tight**, then **adjust valves B** as per diagram below.
5. Rotate propeller 1 full 360 degrees turn (piston in cylinder 1 will again be at TDC)
Adjust remaining valves A or B, depending on what was the initial condition in step 4.
6. Use a **feeler gauge .254 mm / .10"** : the tappet gap is properly adjusted when the gauge rubs and resist slightly.

<i>Cylinder No</i>	<i>Intake valve</i>	<i>Exhaust valve</i>
1	A	A
2	B	B
3	B	A
4	A	B
A = Adjust with cylinder 1 valves free		
B = Adjust with cylinder 1 valves tight		

7. While fixing back the valve covers, put some oil on the seal to avoid sticking and do not overtight the allen screws (**7 Nm / 5 ft.lbs**).