

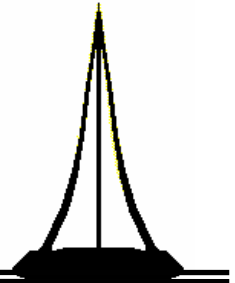
PROP WASH

Rockhampton Model Aero Club Inc



MONTHLY NEWSHEET

August 2008



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News around the Club.

Well the new financial year is on us now and if you have yet to pay your renewal fees please do so before you fly your models at any of the Club fields as you will not have insurance coverage. With the great weather conditions of the last few weeks the flying conditions have been awesome, hate to see you missing out because you are not up to date with your membership. Our AGM is on the 26 September – please consider what role you can play in the Club, and consider nominating for anyone of the official

positions from the Executive through to all the Committee members.

Meeting Notes. (July)

- There have been a few issues with radio interference at the field recently and it has been suggested that we get some frequency scanning done in the area. The Government Radio Examiner cannot test on 36Mhz and it has been suggested that we ask the Amateur Radio Club to assist. To be advised.
- With the effort from one member who has being looking at getting power put onto the field it looks like this will be happening in the near future (before Christmas) that power will be supplied to the RMAC field by Ergon for general use.

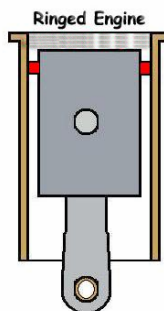
- Reminder for the 23/24 August for the CQ Scale Competition at the RMAC Field, come along and enjoy the weekend activities, wether you participate by competing or generally helping you will be welcome, you may wish to just come along and support another Club activity, and view the planes the flying and talking with friends.
- Some members are starting to look at fund raising for the Club again.

Meeting Notes. (August)

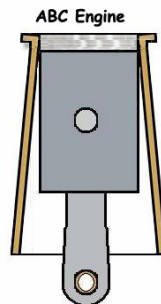
Sorry missed this meeting.

Ringed vs. ABC Nitro RC Engines

There are two different ways that nitro RC engine manufactures seal the piston with the sleeve. It is critical that the piston and sleeve form an airtight seal in order for the engine to produce compression. Some RC engines simply have a ring that goes around the top of the piston that seals with the iron sleeve. This is called a “ringed” engine. The picture to the right is cross sectional view of the piston/sleeve assembly of a ringed engine. It is greatly exaggerated in order to illustrate how a ringed piston seals with the sleeve. The portion in red is the ring.



Some nitro RC engines have an aluminium piston that moves in a tapered chrome plated brass sleeve. This type of engine is called an **ABC** engine for Aluminium, Brass, and Chrome. The picture to the left is exaggerated to illustrate what the piston/sleeve assembly looks like at ambient temperature. At ambient temperature the inside diameter of the sleeve is slightly smaller at the top of the stroke. The fit between the piston and sleeve gets tighter as the piston rises. When the engine gets to operating temperature the top of the sleeve expands and the sleeve is no longer tapered. The reason the top of the piston expands is because it sees all of the heat from the combustion. The bottom of the sleeve is much cooler and does not expand nearly as much.



When the top of the sleeve expands the piston will fit perfectly with the sleeve at both the top and bottom of the sleeve. When the engine is

cold the sleeve only seals with the piston when the piston is near the top of the stroke. This can make ABC engines a little more difficult to start, especially in cold weather. ABC engines are more tolerant if you accidentally run the engine slightly too lean.

The repair cost for a ringed nitro RC engine is much less than that of an ABC engine. The ring itself is usually the only thing that fails in a ringed engine, provided that you run the engine with the correct fuel mixture. The rings are very easy to replace and are inexpensive. The cost for replacing the ring is typically under \$20. To rebuild an ABC cylinder you will need to buy a new sleeve and new piston. As with anything, the sum of the individual parts of an engine cost a lot more than the whole. It is usually not economical to rebuild an ABC engine.



The benefit of an ABC engine is that the break-in time is a lot shorter. An ABC engine will tolerate the occasional lean run, as where a ringed engine will be damaged immediately with a lean run. The benefit of a ringed engine is that it can be rebuilt relatively cheap. A ringed engine will tend to hold its maximum power longer than an ABC engine which slowly decreases in power as the sleeve and piston wear. If you're new to the hobby I recommend getting an ABC engine. It is much more forgiving and easier to break in. It's worth noting that just about all four-stroke engines are ringed engines.

For Sale

- Raptor 60 Helicopter complete ready to go, just add Transmitter \$1200
ONO call Garth Barnes or Rory for info.
- Great Planes JU87 Stuka, complete ready to go. Call Bert



Members in Pictures.



ooowwwwoo I can't watch...its gona crash!!!



Two Old Timer Model Flyers??



Look its Electric.



Please explain, it really flies??

DATES TO REMEMBER

September 26
October 26

Club Meeting & AGM
Rocky/Gladstone Fun Fly

