



Improving the Internal Combustion Engine of an Aircraft for a Rapidly Changing World

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PRESENTATION OVERVIEW



THE EXPENDITURE ON AIR TICKETS NOWADAYS IS “YUGE”.

MECHANISM



Propeller Propulsion

Glenn
Research
Center



P-51 Mustang

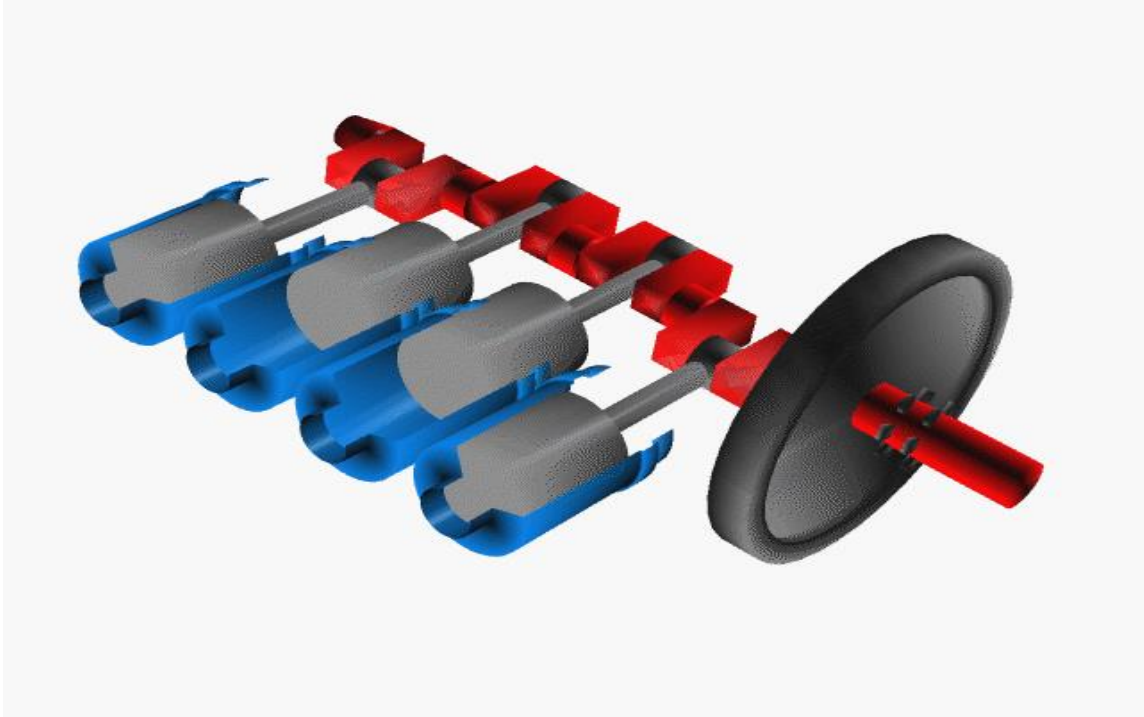
Propellers generate thrust to keep the aircraft afloat!

Wind Tunnel Test

Working fluid is surrounding air.

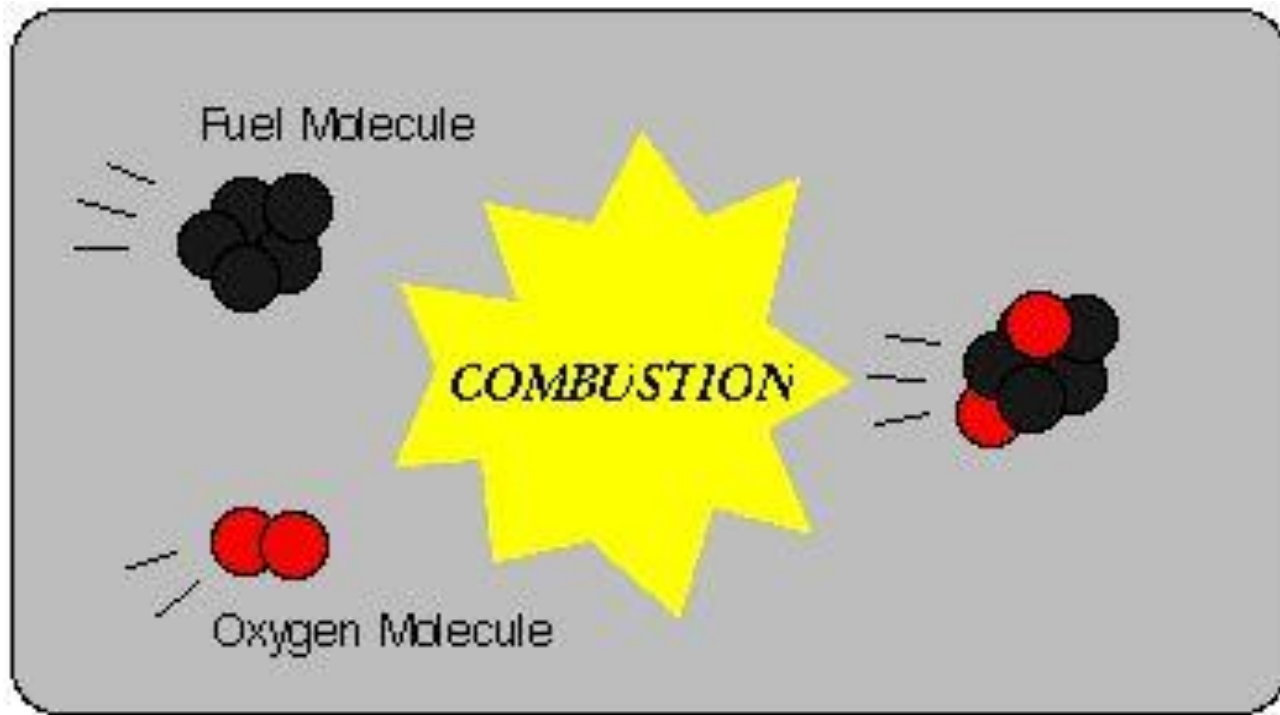


CRANK MECHANISM

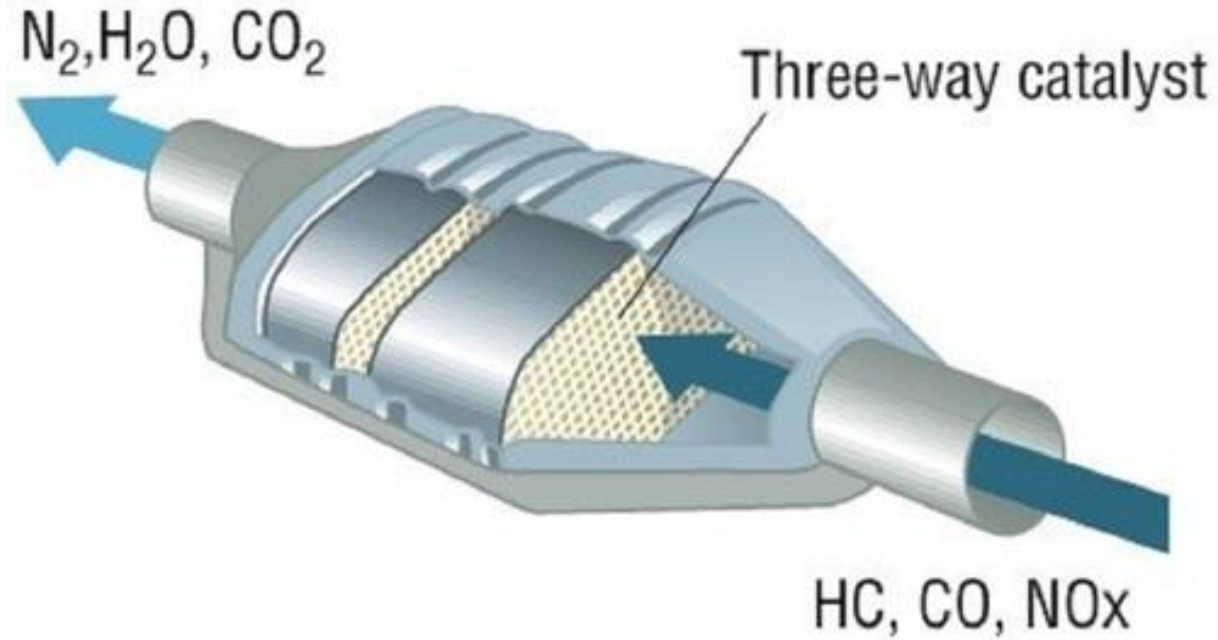


**Torque generated
by the Crank
mechanism system
powers the Engine!**

COMBUSTION REACTION



CATALYTIC CONVERTER



WHY TO IMPROVE FUEL EFFICIENCY?

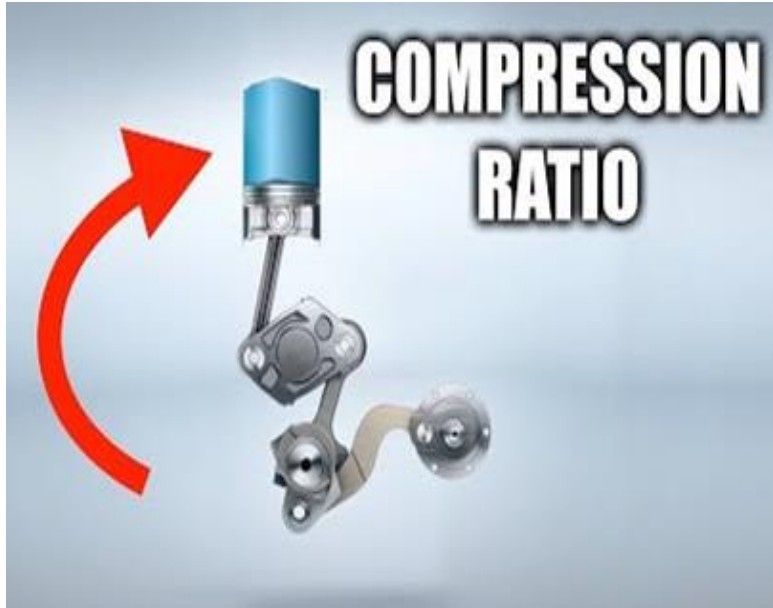


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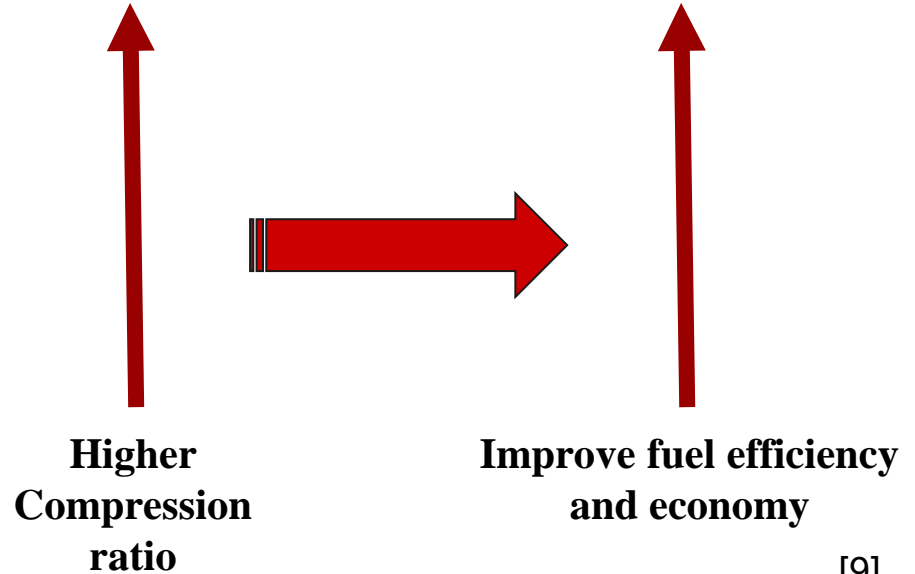


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HOW TO IMPROVE FUEL EFFICIENCY?



[8]



[9]

WHAT ARE THE WAYS TO ELIMINATE NOISE POLLUTION BY ICE?



HOW DOES A SONIC BOOM AFFECT PEOPLE ON A AIRCRAFT?



^[11] No, not this Sonic!



^[12] Yeah, that's more like it!

CONCLUSION: WHAT'S IN IT FOR YOU?



[13]

YOU'LL BE GOING "GREEN" IN MORE WAYS
THAN ONE!




[14]

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