

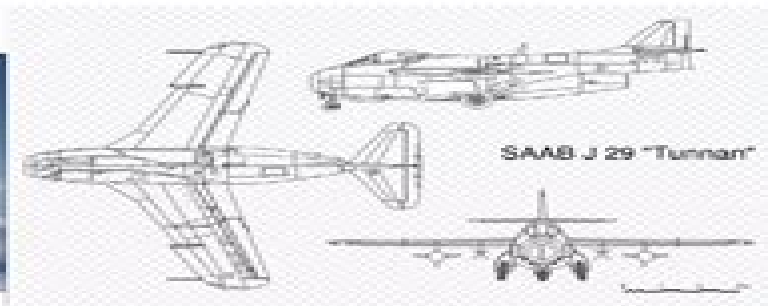
The first operational turbojet fighter aircrafts were the German Messerschmitt Me 262 and the British Gloster Meteor entered service towards in 1944. The Me 262 was produced in World War II and saw action starting in 1944 as a multi-role fighter / bomber / reconnaissance / interceptor warplane for the Luftwaffe.

B-Turbojet engine after burner

An **afterburner** is an additional component added to some jet engines, primarily those on military aircraft. The Jumo 004 engine variation, **004C**, included an afterburner for increased thrust in the design, but was never built. It was also considered for the Miles M.52 project during the last years of World War II (never completed nor tested) where it was called a **reheat jet pipe**. The first operational aircraft with afterburner was the Swedish SAAB J29 "Flying Barrel" in 1954; this was also the first aircraft to enter service with a swept wing configuration. For some years it held speed records due to its very advanced technology, adopted for the first time.

Parts :

- 1- Intake 2- Compressor 3- Combustion chambers
4- Turbine 5- Afterburner 6- Nozzle



SAAB J 29

C- Turbofan Engines

The **Rolls-Royce RB.80 Conway** was the first by-pass engine (or turbofan) to go into service in the world. The jet found only limited applications in the Handley Page Victor, the Vickers VC10, the Boeing 707-420 and the Douglas DC-8-40.

Parts:

- 1-Fan 2- Compressor 3-Combustion chamber 4- Turbines 5-Nozzles

Aircraft Dynamics Solution Manual

R Sanford



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