



AERO ENGINE SCHOOL

_____ Course Notes

Compiled by _____



SECURITY

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AVON RA.7 COURSE NOTES.INDEX.

This set of Notes is arranged in the sequence of instruction adopted at the Rolls-Royce Aero Engine School.

The Notes are not to be regarded as Official Instructions, nor as a substitute for Air Ministry Publications.

Security - You are reminded that this engine is subject to security regulations, and that the information contained in these notes must not be imparted to unauthorised persons.

| <u>Title.</u> | | <u>Serial No.</u> |
|--|---|-------------------|
| <u>Introduction.</u> | | |
| Basic Mechanics of Jet Propulsion | N | TG.1. |
| <u>Engine Construction.</u> | | |
| General Construction | N | TAv.65. |
| Main Units of Engine | D | TAv.79. |
| Nozzle Box Components | D | TAv.107. |
| External Construction | D | TAv.62. |
| Gear Train | D | TAv.113. |
| Internal Construction | D | TAv.78. |
| Combustion Chambers | N | TAv.5. |
| Combustion Chamber | D | TAv.111. |
| Centre Coupling | N | TAv.7. |
| Centre Coupling | D | TAv.8. |
| <u>Gas Flows.</u> | | |
| Gas Flow Temp., Press., & Velocity Changes | N | TAv.9. |
| Gas Flow Temp., Press., & Velocity Changes | D | TAv.10. |
| <u>Fuel System.</u> | | |
| Fuel System | N | TAv.55. |
| Fuel Demand & Supply | N | TAv.68. |
| Fuel System Layout | D | TAv.64. |
| Fuel System | D | TAv.60. |
| Dual Fuel Pump | N | TAv.80. |
| Dual Fuel Pump | D | TAv.126. |
| Fuel Control Unit | N | TAv.18. |
| Fuel Control Unit | D | TAv.19. |
| Barometric Pressure Control Unit | D | TAv.20. |
| Altitude Sensitive A.C.U. | N | TAv.70. |
| Altitude Sensitive A.C.U. | D | TAv.53. |
| Interaction of Fuel Pumps, F.C.U. & A.C.U. | N | TAv.76. |
| Duple Burners | N | TAv.24. |
| Duple Burners | D | TAv.25. |
| Combustion Chamber Drain System | N | TAv.28. |
| Combustion Chamber Drain System | D | TAv.29. |

/continued.

| <u>Title.</u> | | <u>Serial No.</u> |
|--|---|-------------------|
| <u>Oil and Air Systems.</u> | | |
| Oil System | N | TAv.83. |
| Oil System | D | TAv.110. |
| Oil Cooler | D | TAv.31. |
| Internal Wheelcase | D | TAv.84. |
| External Wheelcase | D | TAv.108. |
| Air Cooling Sealing | N | TAv.69. |
| Cooling Air System | D | TAv.109. |
| Rear Bearing | D | TAv.56. |
| <u>Compressor Bleeds and Intake Guide Vanes.</u> | | |
| Intake Guide Vane Ram | N | TAv.67. |
| Progressively Variable Ram | D | TAv.51. |
| Compressor Bleed Valves | N | TAv.85. |
| Compressor Air Bleed Control | D | TAv.47. |
| <u>Performance.</u> | | |
| Static Performance at Sea Level | G | TAv.101. |
| <u>Anti-Icing.</u> | | |
| Engine Anti-Icing | N | TAv.89. |
| Engine Anti-Icing | D | TAv.77. |
| <u>Ignition.</u> | | |
| High Energy Igniter System | N | TAv.86. |
| High Energy Igniter | D | TAv.59. |
| <u>Starter System.</u> | | |
| Starter Drive | D | TAv.114. |
| Triple Breech Turbo Starter | N | TAv.100. |
| Triple Breech Turbo Starter | D | TAv.50. |
| Triple Breech Turbo Starter Operating Circuit | D | TAv.99. |
| <u>Engine Inhibiting.</u> | | |
| Engine and Fuel System Inhibiting | N | TAv.48. |
| <u>Pyrometric Equipment.</u> | | |
| Pyrometric Equipment | N | TG.6. |
| Jet Temperature Recording Unit | D | TG.6. |

N - Notes
D - Diagram
G - Graph



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