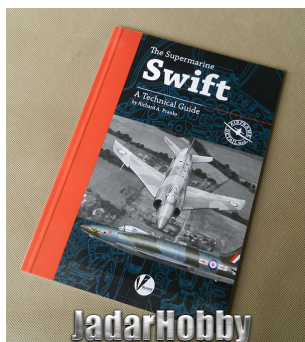


## Valiant Wings AD04 - The Supermarine Swift



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"**Airframe Detail**" to seria kolorowych kompleksowych , bogato ilustrowanych przewodników dla modelarzy. W każdym tomie znajdują się kolorowe profile i schematy malowań, liczne zdjęcia, rysunki z instrukcji oraz spis modeli ,akcesoriów i kalkomanii do poszczególnych tytułowych samolotów.

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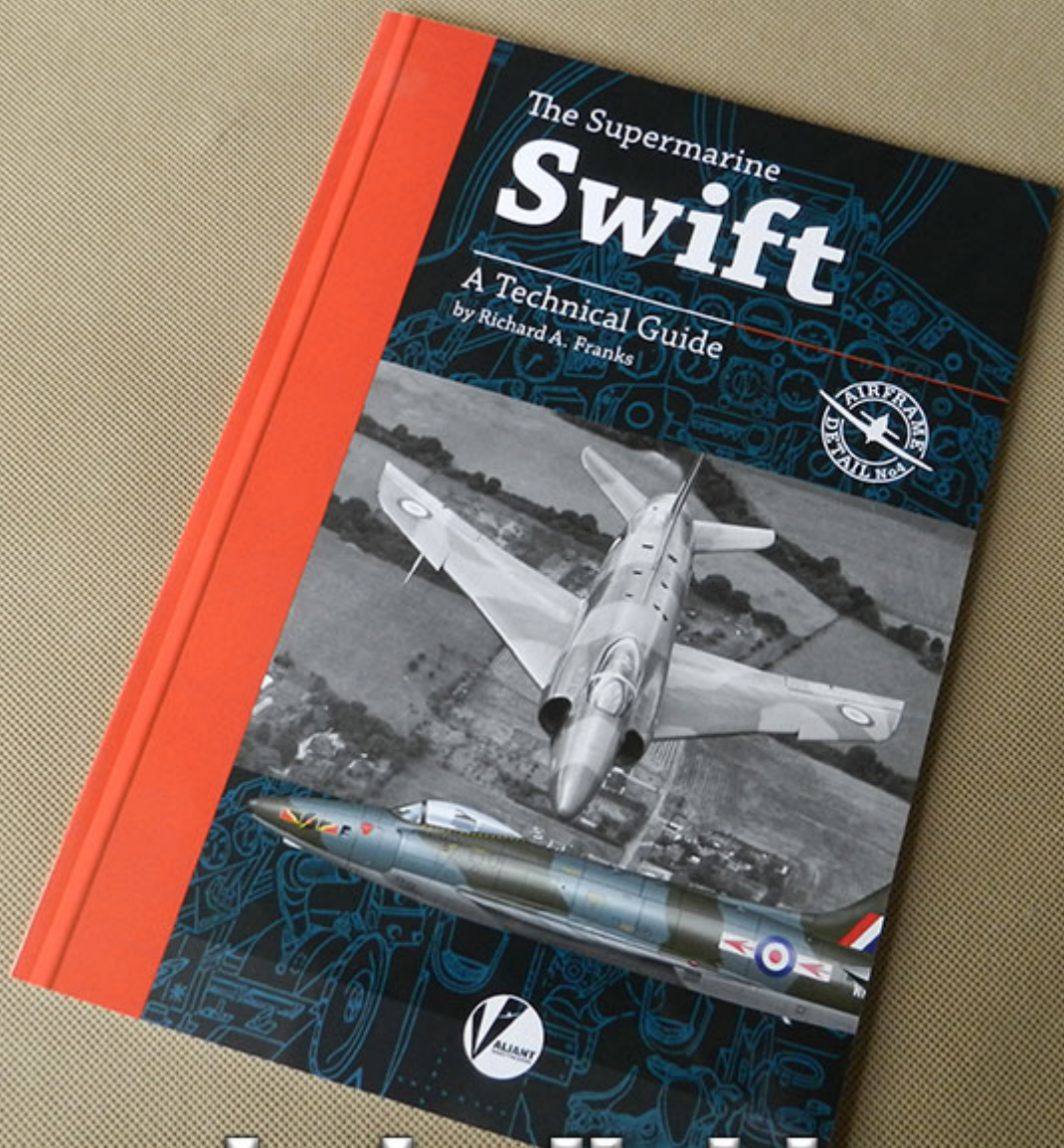
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# The Supermarine Swift



Airframe Detail No.4

## The Supermarine Swift

A Technical Guide

by Richard A. Franks

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The author would like to give a special word of thanks to Chris at Jet Art Aviation Ltd and Ron Fulton of the Boscombe Down Aviation Collection for the assistance with images of the Swifts in their care, to R. Mills for the images of WK281 he took for me many years ago, and to Richard J. Caruana for his superb artwork.

### Note

There are many different ways of writing aircraft designation, however the Swift operated in the post-1948 period when the RAF adopted the Arabic system of numbering (e.g. F Mk 6), so we will use this system throughout this title.



Swift F4 Silhouette



Swift F Mk 1 WK205 just before touchdown (©Air Ministry/MOD)

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### Glossary

A&AEE..... Aircraft & Armament Experimental Establishment, Boscombe Down	in ..... Inch
AFDS..... Air Fighting Development Squadron, West Raynham	lb ..... Pound
C(A) ..... Controller (Aircraft)	Mk ..... Mark
CO ..... Commanding Officer	Mod ..... Modification
ETPS ..... Empire Test Pilot's School, Farnborough	mph ..... Miles Per Hour
Flt ..... Flight	MU ..... Maintenance Unit (RAF)
ft ..... Foot	No ..... Number
GP ..... General Purpose	PO ..... Petty Officer
GWDS ..... Guided Weapons Development Squadron, Valley	RAE ..... Royal Aircraft Establishment
HQ ..... Headquarters	RAF ..... Royal Air Force
IFF ..... Identification Friend or Foe	R.P. .... Rocket Projectile
Imp. Gal... Imperial Gallon	SOC ..... Struck Off Charge
	SofTT ..... School of Technical Training
	Sqn ..... Squadron
	UK ..... United Kingdom





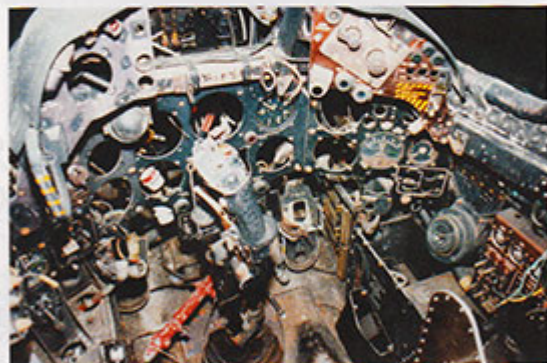
*This is an overall shot of the instrument panel in F Mk 4 WK275 when it was opened for the first time in about 50 years in 2012! (©Jet Art Aviation Ltd)*



*This is the port side upper element of the instrument panel in F Mk 4 WK275 (©Jet Art Aviation Ltd)*



*This is the starboard side upper element of the instrument panel in F Mk 4 WK275 (©Jet Art Aviation Ltd)*



*This is an overall view of the what is left of the instrument panel in the FR Mk 5 (WK281) owned by the RAF Museum*



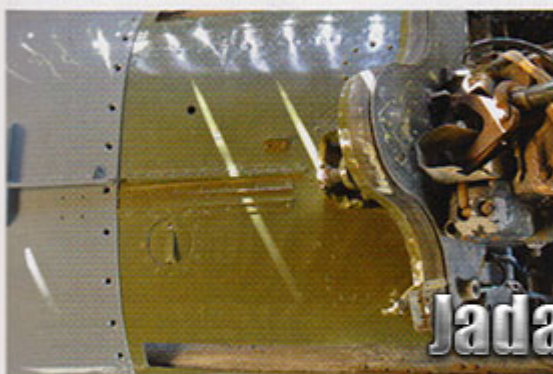
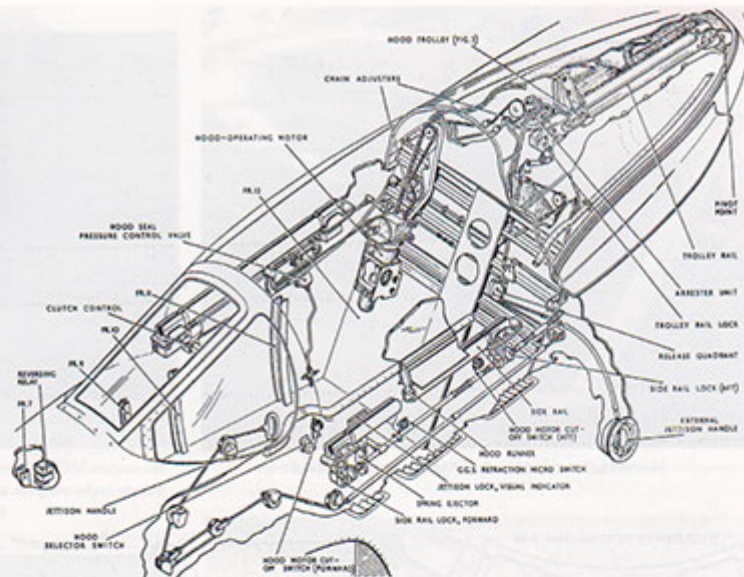
*This is the upper port side element of the instrument panel in FR Mk 5 WK281*





However, F Mk 4 WK275 remained in existence for a long time and it gained a clear canopy as used on the FR Mk 5 and seen here in this image of it at Hatfield in the 1960s (©Jet Art Aviation)

What makes things even more confusing is that the official manual for the F Mk 3 and F Mk 4 only show the later style canopy, as seen here in the winding and jettison diagram? This is probably due to the fact that the F Mk 3 and 4 never technically entered RAF service, those of the latter mark that did were converted to FR Mk 5s by that stage; this diagram therefore serves for the FR Mk 5 canopy as well (©Crown Copyright)



If you want to know what is underneath the canopy and directly behind the seat, this is a shot of that area on F Mk 4 WK275 during restoration (©Jet Art Aviation Ltd)



Here you can see the relationship between the upper decking under the canopy and the rear cockpit bulkhead/seat rails. Again this is F Mk 4 WK275 during restoration (©Jet Art Aviation Ltd)



This is the actual canopy itself from F Mk 4 WK275, showing you the shape of the framework and the cover that is built inside the aftmost section (©Jet Art Aviation Ltd)



A quick close-up of the 'clear' canopy used on the FR Mk 5, as seen here on the RAF Museum example at Tangmere (©J. Mills)



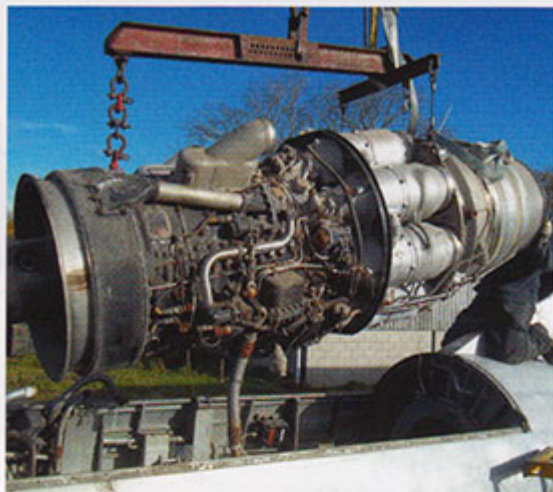
The F Mk 7 had the same canopy as the FR Mk 5, as seen here on the BDAC cockpit section



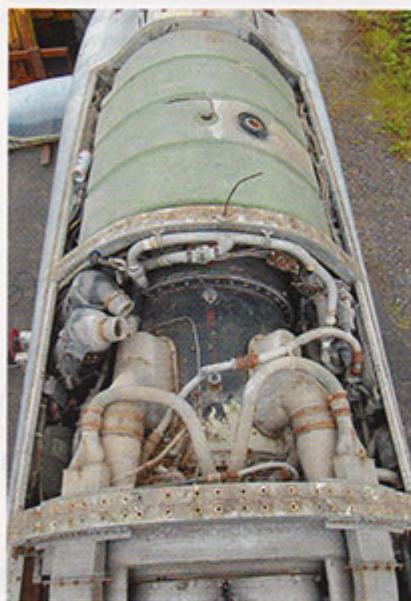
## 6.1 Engine & Afterburner Exhaust



Here is the Avon out of F Mk 4 WK275 and now mounted in a handling trolley (©Jet Art Aviation Ltd)



This is the Avon being removed from the fuselage of F Mk 4 WK275 during the initial dismantling prior to restoration (©Jet Art Aviation Ltd)



Here is a close-up of the front section of the Avon along with the fuel cell in front of it; the front of the aircraft is at the top of this image (©Jet Art Aviation Ltd)



The prototypes had the Nene, but all production machines had the Rolls-Royce Avon, this shows the overall engine bay in F Mk 4 WK275 during strip-down prior to restoration. Note the fuel tank in the front of the compartment (©Jet Art Aviation Ltd)



This is the engine compressor case and generators of F Mk 4 WK275 during strip-down (©Jet Art Aviation Ltd)



This is the afterburner nozzle in the back of F Mk 4 WK275 during strip-down (©Jet Art Aviation Ltd)



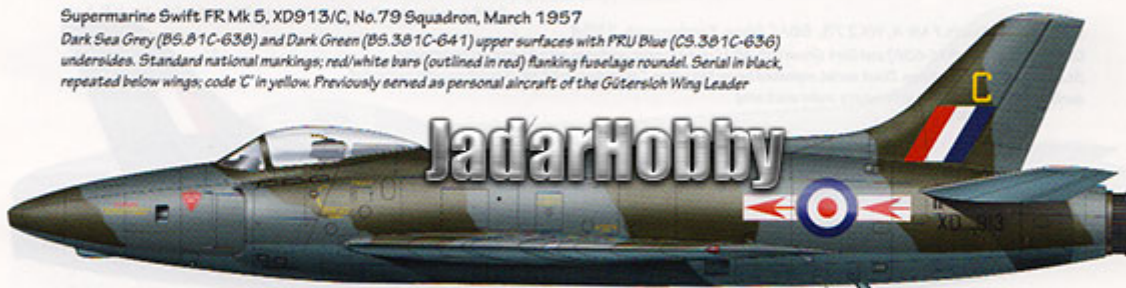
Supermarine Swift FR Mk 5, XD912/C, No.2 Squadron, as seen at Tangmere on 14th Sept 1957  
 Dark Sea Grey (BS.81C-638) and Dark Green (BS.381C-641) upper surfaces with PRU Blue (CS.381C-636)  
 undersides. Standard national markings. Black bars with white triangles flanking fuselage roundels. Code 'C' on fin in  
 white. Serial in black, repeated below the wings



Supermarine Swift FR Mk 5, WK309/S, No.2 Squadron, 1957  
 Dark Sea Grey (BS.81C-638) and Dark Green (BS.381C-641) upper surfaces with PRU Blue (CS.381C-636)  
 undersides. Standard national markings. Black bars with white triangles flanking fuselage roundels. Code 'S' in  
 yellow on fin, serial in black repeated below the wings



Supermarine Swift FR Mk 5, XD913/C, No.79 Squadron, March 1957  
 Dark Sea Grey (BS.81C-638) and Dark Green (BS.381C-641) upper surfaces with PRU Blue (CS.381C-636)  
 undersides. Standard national markings; red/white bars (outlined in red) flanking fuselage roundel. Serial in black,  
 repeated below wings; code 'C' in yellow. Previously served as personal aircraft of the Gütersloh Wing Leader



Supermarine Swift FR Mk 5, WK287/A, No.2 Squadron  
 Dark Sea Grey (BS.81C-638) and Dark Green (BS.381C-641) upper surfaces with Aluminium undersides.  
 Standard national markings. Black/white bars flanking fuselage roundels; code and serial in white, the latter  
 repeated in black below the wings. Aircraft ended its life at the Manston Fire School



Supermarine Swift FR Mk 5, WK290/Y, No.2 Squadron  
 Dark Sea Grey (BS.81C-638) and Dark Green (BS.381C-641) upper surfaces with Aluminium undersides.  
 Standard national markings. Black bars with white triangles flanking fuselage roundels. Code and serial in white,  
 the latter repeated in black below the wings

