Infographic Catalogue

Aeronautical Diagrams and Narrative Artworks

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202407

Accident

Includes the following subcategories:

Air Show 1960-1999
Airliner Asia Pacific
Airliner Australia
Airliner Europe
Airliner Middle East
Airliner North America
Airliner South America
Airliner UK / British Isles
Civil Australia
Durigables
Military Australia

Accident Air Show 1960-1999

Accident Air Show 1960-1999
Farnborough SBAC, 1968

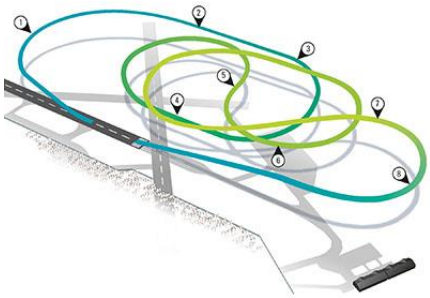
French Navy, Marine nationale, Breguet Br.1150 Atlantique crash

43

1968 Sept Farnborough, UK Aircraft Accident

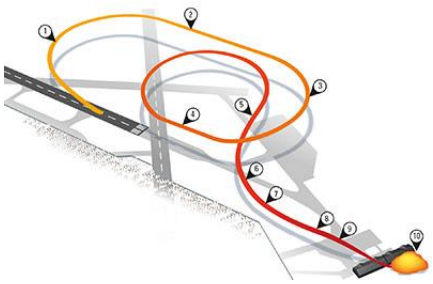
Flightpath of the planned display routine for the Breguet Atlantique at the 1968 Farnborough SBAC show. The pilot, Hervé Chevalier, flew this display on the Tuesday and Wednesday of the show (17 & 18 September).

Drawing code: 1373-10



Flightpath flown by the Breguet Atlantique on Friday 20 September at the 1968 Farnborough SBAC show. Due to a reduced time slot the display was abbreviated from the planned routine. The aircraft entered a steep bank and crashed behind the Black Sheds.

Drawing code: 1373-20



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Accident Airliner Asia Pacific

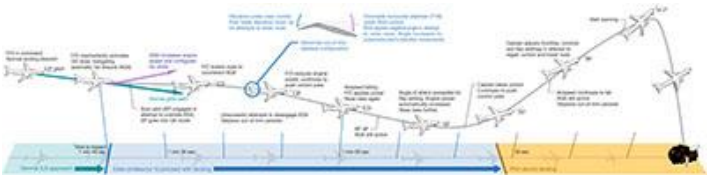
Accident Airliner Asia Pacific
1980-2000

Airline, China Airways

B1816 (Flight 140)

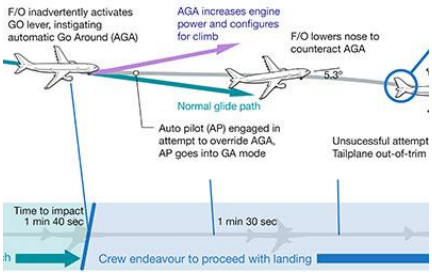
1994 Nagoya, Japan Aircraft Accident

Diagram expalining the sequence of key events leading up to the crash of China Airways Flight 140 (A300) at Nagoya Airport on 26 April 1994.



Drawing code: 1262-01

Close up detail of main artwork



Drawing code: 1262-01A

Accident Airliner Asia Pacific
2000-2020

Airline, Singapore Airlines

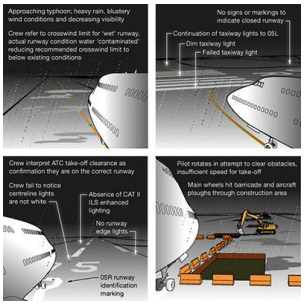
9V-SPK (Flight 006)

2000 CKS Airport, Taiwan Aircraft Accident

Narrative diagram showing the path taken by Flight 006 when it inadvertently took off on a closed runway during poor weather on 31 October 2000. The aircraft broke up after hit runway construction equipment resulting in the loss of 64 lives.

Drawing code: 1220-01

Detail artwork to accompany main narrative diagram of the path taken by Flight 006 when it inadvertently took off on a closed runway during poor weather on 31 October 2000.



Drawing code: 1220-02

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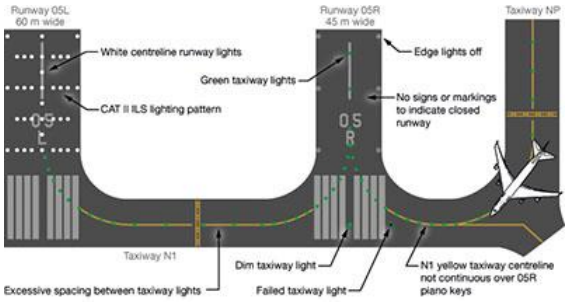
Diagram of the lighting and markings at the start of runways 05L and 05R. Helps explain why Flight 006 inadvertently turned onto a closed runway during poor weather on 31 October 2000, but also raised question as to why the crew missed some critical cues.

Drawing code: 1220-03



Accident Airliner Australia

Accident Airliner Australia
1931-1940

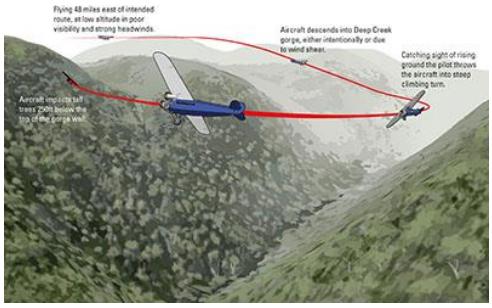
Airline, Australian National Airways

VH-UMF (Southern Cloud)

1931 NSW, Australia

Flight path diagram illustration of a possible sequence of events leading to the loss of the Avro X (Fokker F.VII) in the Snowy Mountain in 1931. The wreckage was in very rugged terrain and was not found until the late 1950s.

Drawing code: 1579-01



Illustrative artwork showing the Southern Cloud moments before it collided with the thick mountain ash forests lining the sides of Deep Creek gorge.

Drawing code: 1579-02

Accident Airliner Australia
1951-1960

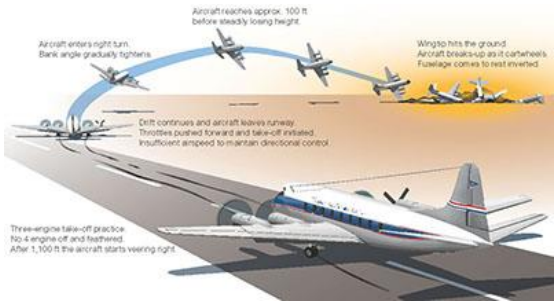
Airline, Trans-Australian Airlines (TAA) Viscount

VH-TVA

1954 Mangalore, Victoria

VH-TVA was the first Viscount to enter service in Australia. Just 18 days after arrival it suffered an accident during a training take-off on three engines. This diagram covers the flight path from take-off to the crash.

Drawing code: 1523-001



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Accident Airliner Australia

1961-1970

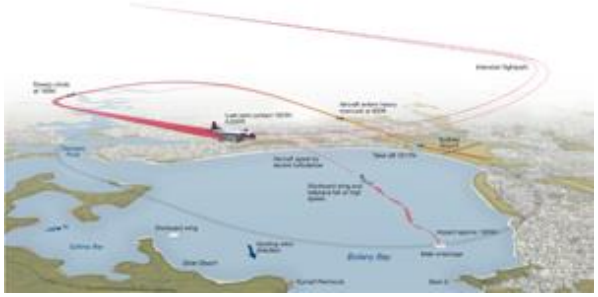
Airline, Ansett-ANA Airlines Viscount

VH-TCV

1961 Botany Bay, Sydney, NSW Aircraft Accident

Loss of the Ansett-ANA Viscount VH-TCV on 30 November 1961, during severe weather. Turbulence induced a upset, leading to a high speed dive. During attempted pull up the port wing separated. Illustration of the probable flight path and sequence of events.

Drawing code: 0817-02



Accident Airliner Australia

1971-1990

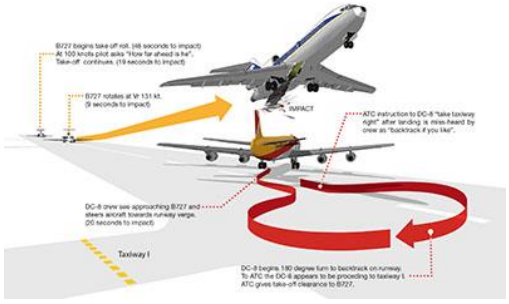
Airline, CP Air (DC-8) and TAA (727)

CF-CPO, VH-TJA

1971 Sydney Airport, Australia Aircraft Accident

Diagram illustrating the flight path of a DC-8 and Boeing 727 when they collided on the runway. The incident occurred on the night of 29 January 1971. Both aircraft were damaged but there were no fatalities.

Drawing code: 1451-011



Accident Airliner Australia

1991-2010

Airline, Ansett 747

VH-INH

1994 Sydney Airport

On 9 October 1994, Ansett 747 VH-INH had a nose wheel failure at Kingsford Smith Airport, Mascot, Sydney. Artist's impression of the aircraft skidding down the runway.

Drawing code: 1713-1

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Accident Airliner Europe

Accident Airliner Europe
2000-2020

Airline, Air France Concorde

F-BTSC (Flight AF 4590)

July 2000 Paris, France Aircraft Accident

Narrative diagram illustrating some of the events and factors leading to the fatal crash of Flight AF 4590, Concorde F-BTSC on 25 July 2000.

Drawing code: 0892-200

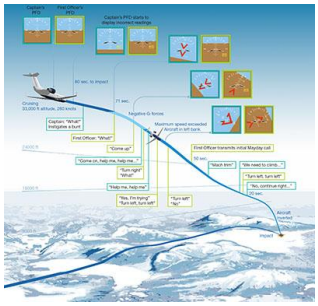
Airline, West Air Europe

SE-DUX

2016 Sweden Aircraft Accident

Narrative diagram showing the flight path and crew reaction after the pilot's primary flight display (PFD) began giving erroneous readings. The freight service Bombardier Challenger 600 crashed at high speed into a snowy mountainous region, 8 Jan 2016.

Drawing code: 1480-01



Accident Airliner Middle East

Accident Airliner Middle East
2000-2020

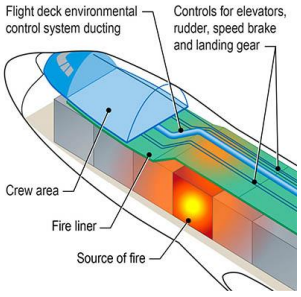
Airline, UPS 7474 Freighter

N571UP (Flight SCAT-IC)

Sept 2010 Dubai Aircraft Accident

UPS 747 Freighter crashed at Dubai, on 3 September 2010 after a cargo fire affected the pilots ability to control the aircraft.
Diagram shows the location of the fire and the aircraft systems that were damaged.

Drawing code: 1152-DI



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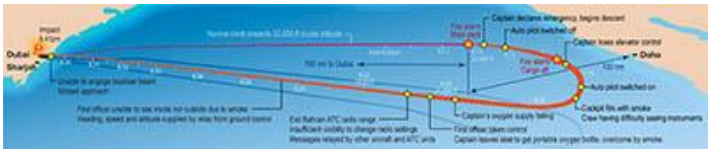
Flight path sequence of events leading to the crash of a UPS 747 Freighter at Dubai, on 3 September 2010. A cargo fire lead to control problems and smoke in the cockpit. The aircraft returned to Dubai but was lost during attempted landing.



Drawing code: 1152-FP

Accident Airliner North America

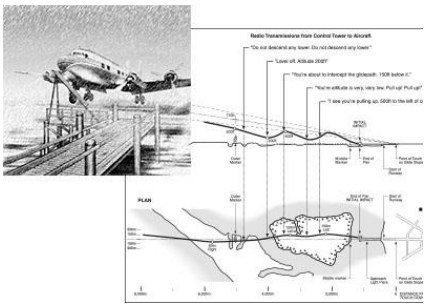
Accident Airliner North America
1950-1959

Airline, Linee Aeree Italiane, DC-6B

I-LINE

1954 Idlewild, New York

Crash of LAI DC-6B on approach to Idlewild international Airport, new york, on 18 Dec 1954.
Artwork incl b/w sketch of aircraft on descent in rain and a diagram showing the critical last moments of the flight.



Drawing code: 1210-04set

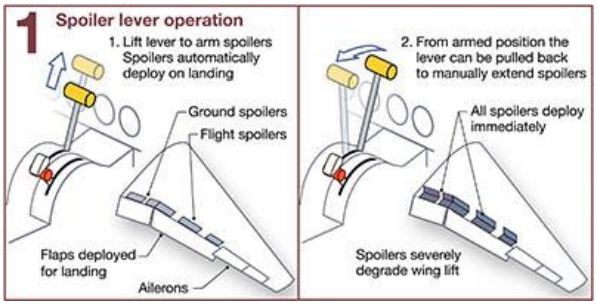
Accident Airliner North America
1960-1969

Airline, Air Canada DC-8

CF-TIW (Flight 621)

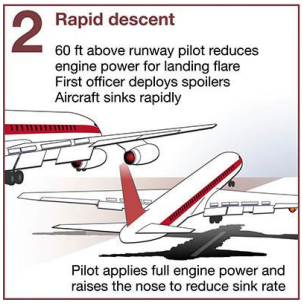
1970 July Toronto, Canada Aircraft Accident

Sequence of events leading to the crash of DC-8, CF-TIW, while landing at Toronto Pearson International Airport, 5 July 1970.
Illustration showing the cockpit control for spoiler deployment.



Drawing code: 1103-DI1

Sequence of events leading to the crash of DC-8, CF-TIW, while landing at Toronto Pearson International Airport, 5 July 1970.
Illustration showing the rapid descent caused by the spoiler deployment.



Drawing code: 1103-DI2

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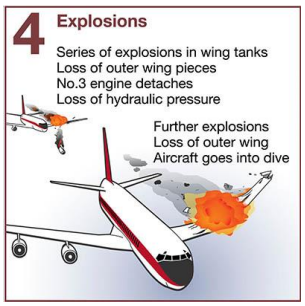
Sequence of events leading to the crash of DC-8, CF-TIW, while landing at Toronto Pearson International Airport, 5 July 1970.
Illustration showing the damage caused by the hard landing.

Drawing code: 1103-DI3

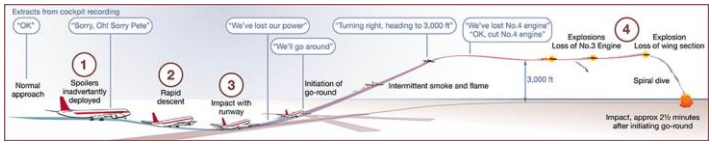
Sequence of events leading to the crash of DC-8, CF-TIW, while landing at Toronto Pearson International Airport, 5 July 1970.
Illustration showing the engine loss and structural failure caused by the fire in the wing.

Drawing code: 1103-DI4



Sequence of events leading to the crash of CF-TIW. Spoilers were accidentally deployed prior to touchdown resulting in a heavy landing and a wing fire. A 'go-round' was achieved however the aircraft suffered structural failure, crashing soon after.

Drawing code: 1103-MI



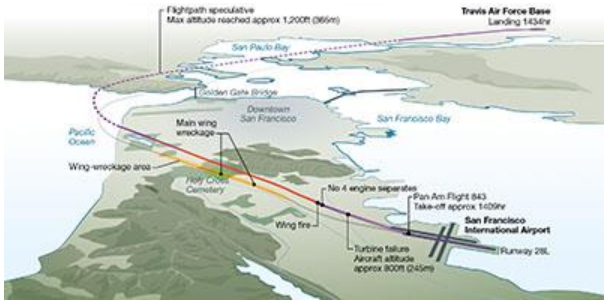
Airline, Pan American World Airways

N761PA (Flight 843)

1965 San Francisco, USA Aircraft Accident

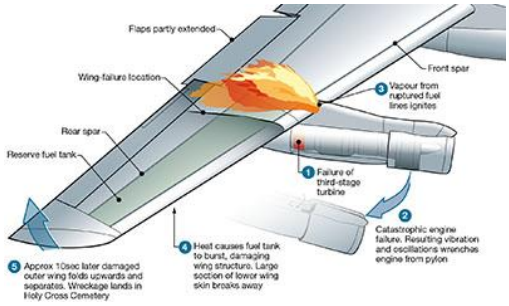
Incident involving the loss of No 4 engine and wing fire after take-off from San Francisco airport, 28 June 1965. Aircraft landed safely at Travis Air Force Base. Diagram showing the flightpath and sequence of events. Can be adjusted to suit page format

Drawing code: 1273-01



Incident involving the loss of No 4 engine and wing fire after take-off from San Francisco airport, 28 June 1965. Aircraft landed safely at Travis Air Force Base. Diagram showing the engine failure and wing fire. Can be adjusted to suit page format.

Drawing code: 1273-02



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Accident Airliner South America

Accident Airliner South America
1950-1959

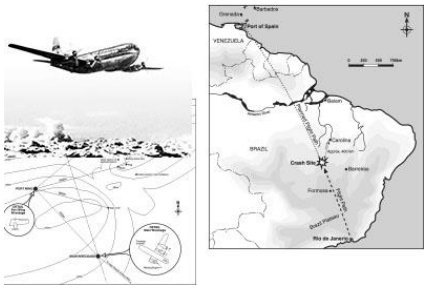
Airline, Pan America, Boeing Stratocruiser

N1039V

1952 Brazil

Loss of Stratocruiser 'Clipper Good Hope' over the Barreiras region in Brazil 29 April 1952.
Set includes a b/w sketch of the aircraft in flight, flightpath map and wreckage diagram.

Drawing code: 1210-02set



Accident Airliner UK / British Isles

Accident Airliner UK / British Isles
1950 - 1959

Airline, D.H. 106 Comet I

G-ALYZ

1952 Ciampino Airport, Rome

Artistic representation of G-ALYZ over-running the runway at Ciampino airport after failing to get airborne. The pilot rotating the nose too high, causing the wings to stall. The pilot aborted the take-off.

Drawing code: 1499-01

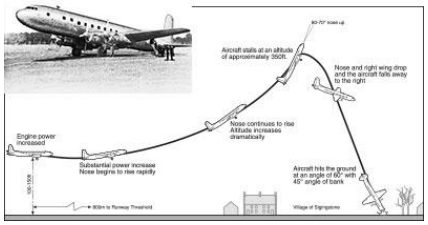
Airline, Fairflight Ltd, Avro Tudir 5

G-AKBY

1950 RAF Llandow, Wales

Artworks relating to crash of Tudor G-AKBY on 12 March 1950. Incl B/W drawing of aircraft and diagram of crash

Drawing code: 1210-01set



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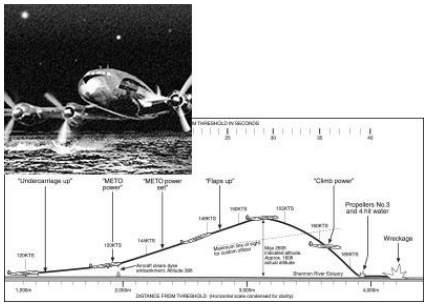
Airline, KLM, Lockheed Supper Constellation

PH-LKY

1954 Shannon Airport, Ireland

Crash of the KLM Constellation at Shannon International Airport, 5 Sept 1954.
Includes b/w drawing of aircraft hitting the water, and a diagram of the key moments in the flight.

Drawing code: 1210-03set



Accident Airliner UK / British Isles
2001-2020

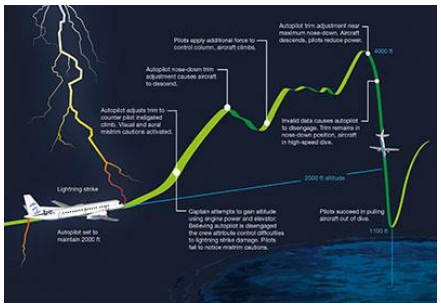
Airline, Loganair FlyBe

G-LGNO

2014 Shetland Islands Aircraft Accident

Artwork illustrates the key events leading to loss of control of a Saab 2000 after a lightning strike. The aircraft made a safe landing. The control loss was due to crew actions rather than any technical problem resulting from the lighting strike.

Drawing code: 1451-021



Accident Civil Australia

Accident Civil Australia
1950-2020

Civil,

VH-JTI

1993 Blue Mountains, NSW

Header artwork for a story relating to the fatal loss of a SOCATA Trinidad when the pilot attempted to cross a mountain range under 10/10 low cloud by following a valley.

Drawing code: 1586-1

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Civil, Rotor Work

VH-AHF

1966 Sydney

Header artwork relating to the crash of a Bell 47 into the centre of Sydney city in November 1966. The aircraft was engaged in a photographic charter and was carrying an ABC director and cameraman.

Drawing code: 1775-00

Accident Durigables

Accident Durigables
R 101 (UK)

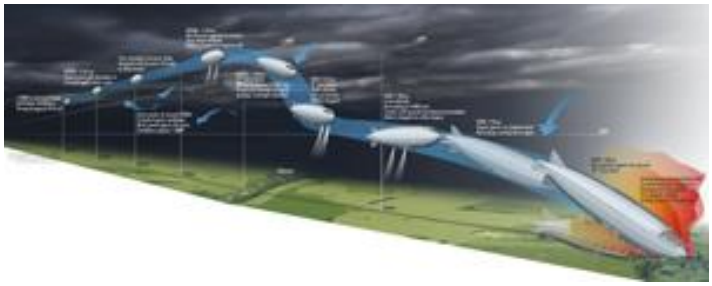
Royal Air Force,

R101

1930 France

R101 Crash Sequence
Diagram illustrates the key events in the final few minutes before the crash of the R101 on the night of the 4th-5th October 1930.

Drawing code: R101-01



Accident Military Australia

Accident Military Australia
World War 2

Royal Australian Air Force, Canberra Air Disaster

A16-97

1940 NSW

Artist impression of the burning wreck of A16-97. The aircraft crashed on approach to Canberra airfield, 13 Augist 1940. Among the 10 killed were 3 key members of the Australian Cabinet.

Drawing code: 1516-01

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Accident Military Australia
1960-2000

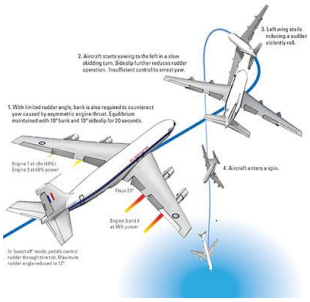
Royal Australian Air Force, Flightpath diagram

A20-103

1991 Victoria Aircraft Accident

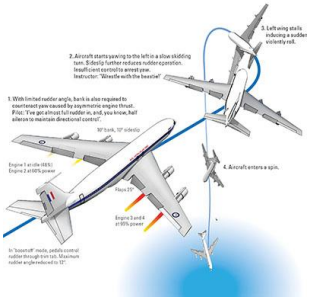
Flightpath diagram showing the sequence of events leading to the loss of control and crash of RAAF 707-368C, A20-103 'Windsor 380' off the coast of Victoria on 29 October 1991.

Drawing code: 1601-01A



Flightpath diagram showing the sequence of events leading to the loss of control and crash of RAAF 707-368C, A20-103 'Windsor 380' off the coast of Victoria on 29 October 1991. This version includes quotes from crew conversation.

Drawing code: 1601-01B



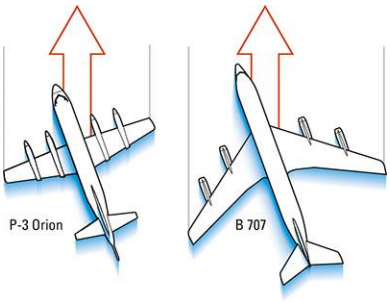
Royal Australian Air Force, P-3 versus 707 sideslip characteristics

A20-103

1991 Victoria Aircraft Accident

The instructor was highly experienced with the P-3 Orion however the wing configuration of the 707 meant it behaved differently during a sideslip. RAAF 707-368C 'Windsor 380' crashed on 29 October 1991, after stalling during asymmetric flight training.

Drawing code: 1601-02



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Anti-Submarine Weapons

Includes the following subcategories:

Techniques Allies, WW2

Anti-Submarine Weapons Techniques Allies, WW2

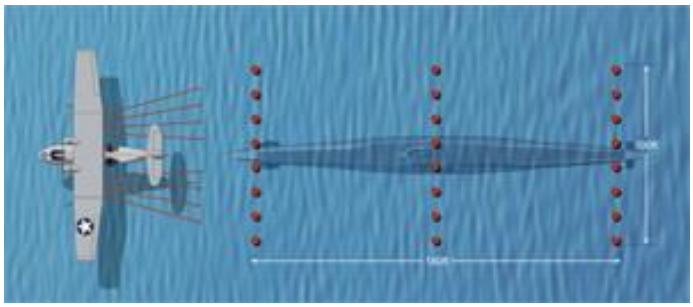
Anti-Submarine Weapons Techniques Allies, WW2
Retrobomb

US Navy, Operation of the Retrobomb

1943

Illustrating the bomb dispersal pattern. The retrobomb (codename 'Mousetrap') were fitted to MAD equipped Catalinas of VP-63. The squadron used the system successfully against German submarines in the Strait of Gibraltar in early 1944.

Drawing code: 0817-01



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Diagrams

Includes the following subcategories:

Aerodynamics
Flying Manoeuvres
Infographics
Operational Techniques Air to Air Refuelling

Diagrams Aerodynamics

Diagrams Aerodynamics
Turbulence

, Wingtip Vortices

A stylised diagram showing the flow of wingtip vortices from the wings of a medium airliner.

Drawing code: 0892-100

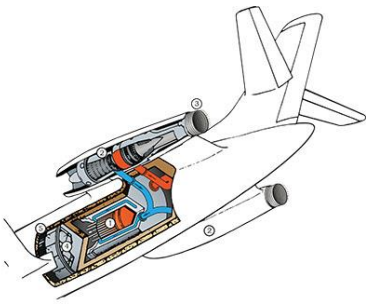
Diagrams Aircraft Design

Diagrams Aircraft Design
Nuclear power

Aircraft designer, Nuclear-powered Super-Caravelle

Coloured rendition of manufacturer's artwork of power plant installation in a Caravelle airframe

Drawing code: 1504-01



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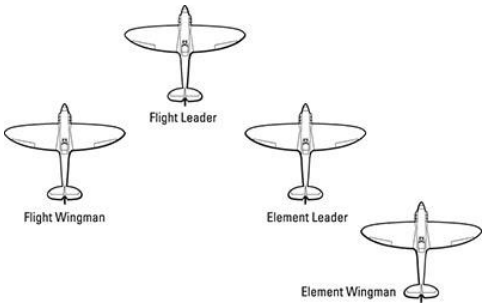
Diagrams Flying Manoeuvres

Diagrams Flying Manoeuvres
Combat Formations

, RAF Fighter Formation: Four Finger

The RAF 'Four Finger' fighter formation was similar to the German 'Schwarm' formation. It became a standard RAF tactic during 1941/42. It was flexible and the loose formation enabled the pilots to concentrate on spotting enemy aircraft.

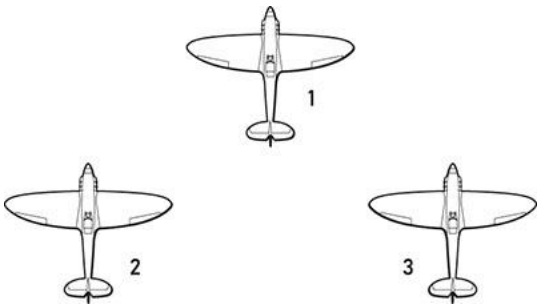
Drawing code: 1612-4



, RAF Fighter Formation: Vic

The Vic formation was a fighter attack formation developed by the RAF and included in their pre-WW2 'Manual of Air Tactics'.

Drawing code: 1612-3



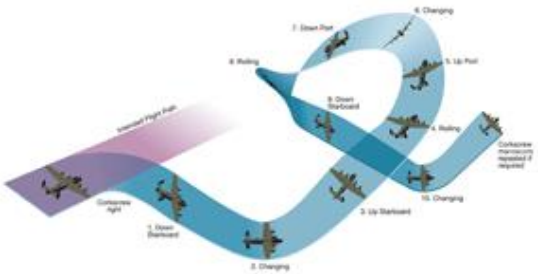
Diagrams Flying Manoeuvres
Defensive 'Corkscrew'

Royal Air Force, Lancaster Corkscrew

WW2

Diagram illustrating the manoeuvre used by RAF Lancaster bomber to avoid German night fighter attacks. The manoeuvre was known as the 'corkscrew'. The version used by the Lancaster was more strenuous than the standard "corkscrew".

Drawing code: 0823-01



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Diagrams Infographics

Diagrams Infographics
Flight Safety

, Flight Data Recorders (Black Box)

Stylised diagram showing the position of the "black boxes" and the input sensors that provide data to the recorders. The featured aircraft is a Boeing 737.

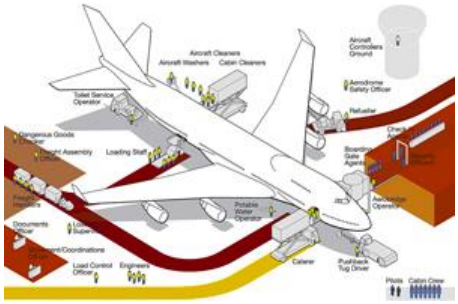
Drawing code: 0169-00

Diagrams Infographics
Human Factors

, Aircraft Ground Support Staff

Stylised diagram indicating the approximate number of ground based support staff required to prepare a typical Boeing 747 for a scheduled airline flight. Originally developed for an article on human factors.

Drawing code: 0778-00

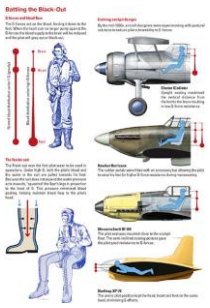


, G-force effects & techniqes to protect pilots (WW2)

WW2

Page diagram explaining the effects of G-forces (centrifugal acceleration) on blood flow, comparative WW2 cockpit designs and resultant vulnerability of the pilot to G-forces, and the operation of the anti-G Franks Suit.

Drawing code: 1529-Page2



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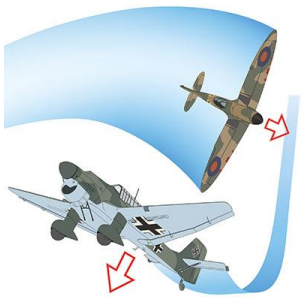
, High G-force manoeuvres

WW2

Examples of classic WW2 flight manoeuvres which resulted in high centrifugal acceleration (G-forces) that could cause pilot grey-out or black-out (Spitfire high-G turn, Ju 87 dive pullout).

Drawing code: 1529-Page1



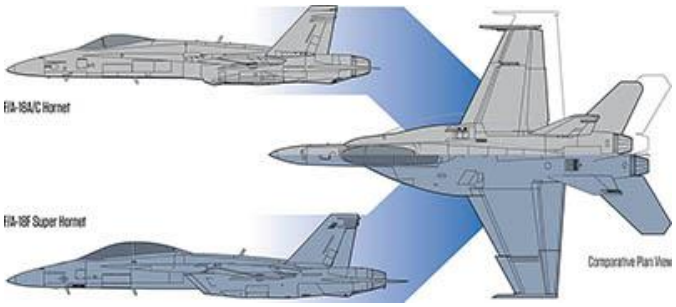
Diagrams Infographics

Comparative Diagrams

, Airframe comparison: F/A-18A v FA-18F

Diagram comparing the McDonnell Douglas F/A-18A Hornet and the Boeing FA-18F Super Hornet. Featured a side view of each type and a split plan view.
Artwork colour and proportions can be adjusted to suit specific page layouts.

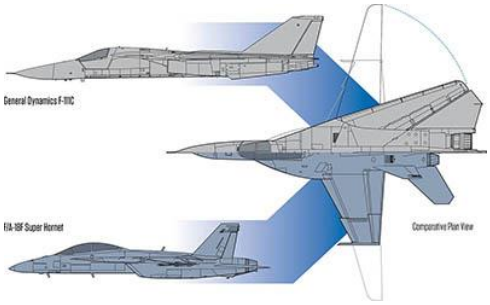
Drawing code: 0993_HvSH



, Airframe comparison: F-111 v F/A-18 Super Hornet

Diagram comparing the General Dynamics F-111 and the Boeing F/A-18F Super Hornet. Featured a side view of each type and a split plan view.
Artwork colour and proportions can be adjusted to suit specific page layouts.

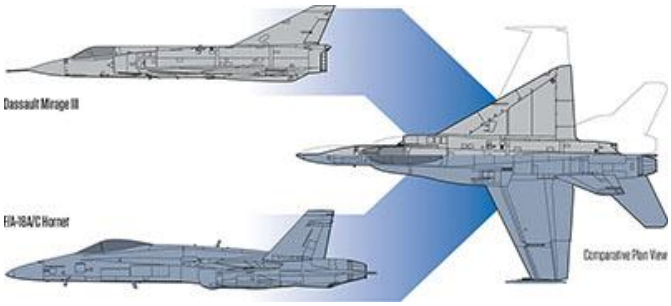
Drawing code: 0993_FvSH



, Airframe comparison: Mirage III v FA-18A Hornet

Diagram comparing the Dassault Mirage III and the McDonnell Douglas F/A-18A Hornet. Featured a side view of each type and a split plan view.
Artwork colour and proportions can be adjusted to suit specific page layouts.

Drawing code: 0993_MvH



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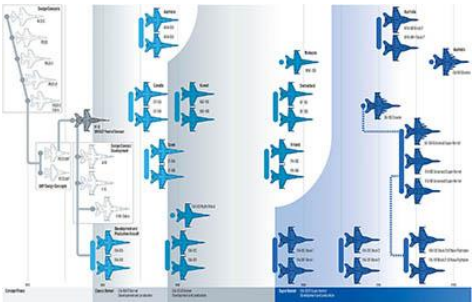
, F/A-18 Development Chart

The diagram illustrates the development lineage of the F/A-18 series; Northrop Cobra and LWF concepts to the McDonnell Douglas F/A-18 Classic Hornet, through to the later Boeing Advanced Super Hornet series.

Drawing code: 0993_LC



Diagrams Operational Techniques Air to Air Refuelling

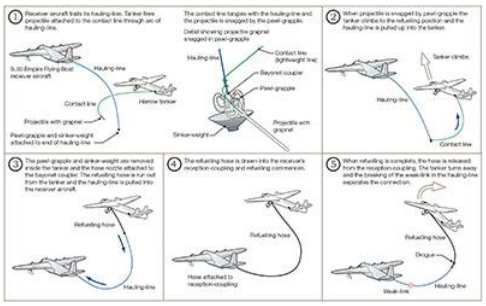
Diagrams Operational Techniques Air to Air Refuelling

Air to Air Refuelling 1930s

, Looped Hose method (Flight Refuelling Ltd, 1930s)

Diagram showing the air to air refuelling technique developed by Flight Refuelling Ltd using the Handley Page Harrow to refuel a Short S.30 Empire Flying Boats. Artwork includes a description of each step of the process.

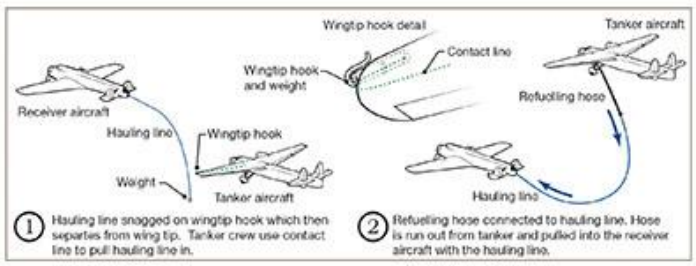
Drawing code: 1455-011



, Wing Tip Hook method (Flight Refuelling Ltd, 1930s)

Diagram showing the technique developed by Flight Refuelling Ltd using a wing tip hook to snag a contact line between the refueling and the receiving aircraft. This is the first step in the refuelling process. Artwork includes description of the process.

Drawing code: 1455-021



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Symbol/icon/sketch

Includes the following subcategories:

Symbol/icon/sketch -

Symbol/icon/sketch -
Stylised line drawings

, Dassault Mirage III (front view line drawing)

Stylised front view of a Mirage III (vector artwork).

Drawing code: 1538-031

, F/A-18 Classic Hornet (front view line drawing)

Stylised front view of an F/A-18 Hornet (vector artwork). Fitted with a weapon load typical of that used by the RAAF during Operation Okra.

Drawing code: 1538-011

Stylised front view of an F/A-18 Hornet (vector artwork).

Drawing code: 1538-012

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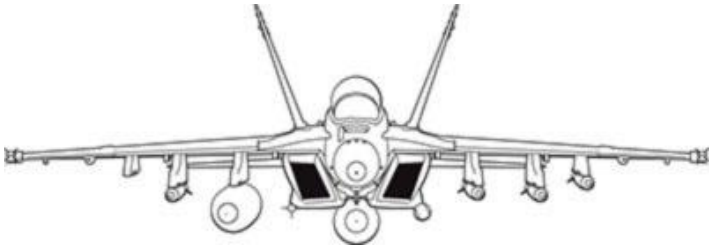
, F/A-18 Super Hornet (front view line drawing)

Stylised front view of an F/A-18 Super Hornet (vector artwork).

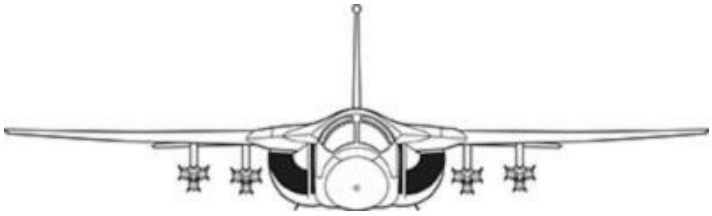
Drawing code: 1538-041



, General Dynamics F-111 (front view line drawing)

Stylised front view of an F-111 (vector artwork).

Drawing code: 1538-021



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