

F-35 to make Paris Air Show debut

The U.S. Air Force's F-35 stealth fighter is scheduled to appear at this year's Paris Air Show, with Lockheed Martin pilots performing the first aerial demonstration in the skies above Le Bourget

LOCKHEED MARTIN F-35A LIGHTNING II

U.S. Air Force variant, entered service in August 2016



Powerplant: Pratt & Whitney F135 turbofan, up to 191kN thrust

Internal weapons: Two 900kg bombs, two air-to-air missiles, 25mm cannon

Performance ■ F-35A ■ Sukhoi Su-30 ■ Boeing F/A-18 Super Hornet

1.6

2.0

1.8

Maximum speed
Mach

2,220

3,000

2,350

Unrefuelled range
km

0.005

4.0

1.0

Radar cross section
sq m (lower = better)

POSSIBLE AEROBATIC MANOEUVRES

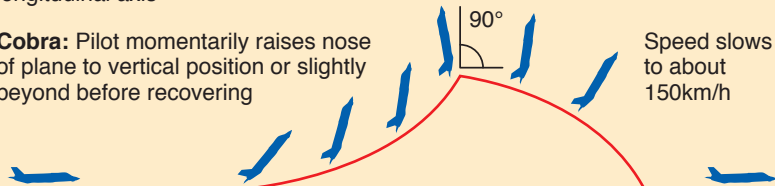
Aileron roll: Full 360° rotation about plane's longitudinal axis



Cobra: Pilot momentarily raises nose of plane to vertical position or slightly beyond before recovering

90°

Speed slows to about 150km/h



High alpha: Pilot pitches nose upwards while maintaining slow, level flight

