

# Self-guided tour – Aviation Heritage Museum

## Walking Trail – East Hangar

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1. This is the Panavia  
T \_\_\_\_\_
2. It flies faster than the  
speed of sound. This is  
S \_\_\_\_\_  
Flying.

It's max speed is Mach  
2.4.



3. Under the wing is a  
chaff and flare Pod.
- ✓ It has Flares to decoy  
heat seeking missiles.
  - ✓ & Chaff to confuse  
enemy radar.
  - ✓ **BUT A FLARE MUST  
BE HOTTER** than the  
exhaust (1,700DegC).

✓ Why?

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4. Under the wings are  
fuel tanks. How many  
litres per fuel tank?  
(Clue see label on  
tank)

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5. These Air Intakes suck  
air into the engine.
- ✓ **BUT** Foreign Object  
Damage (FOD) can  
cause an engine to fail!
  - ✓ **What could cause  
FOD?**

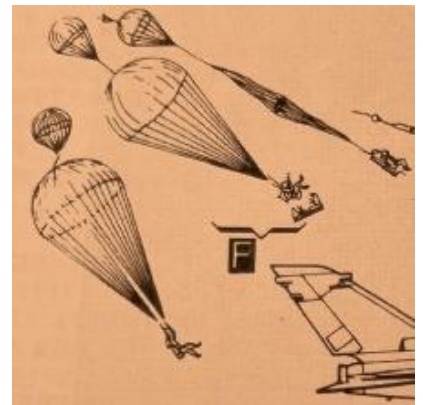
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6. The crew are 2 crew
- a) Front seat –  
P \_\_\_\_\_
  - b) Back seat –  
W \_\_\_\_\_  
System Officer  
(WSO)



7. The rocket powered  
ejection seats have a  
p \_\_\_\_\_.



8. This is the landing  
gear. What's it for?

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2



9. The nose has Terrain Following Radar (TFR).

This will fly autopilot, flying over deserts, mountains and buildings without CRA \_\_\_\_\_!



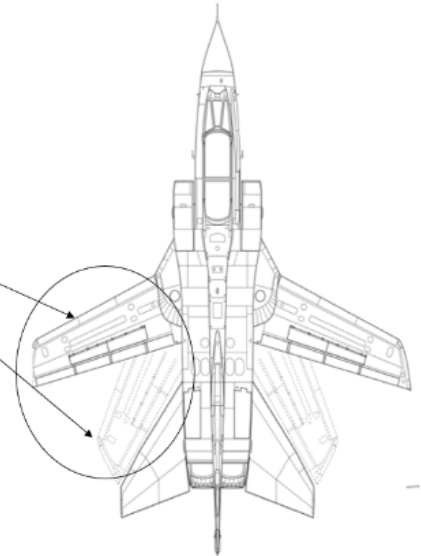
10. Under the wing is a camera called Forward Looking Infra-Red (FLIR).

- ✓ It can see temperature difference. It can find a hot body in a cold ocean. It's good for S \_\_\_\_\_ & R \_\_\_\_\_.

11. The wings have 2 positions:

- Fully Forward &
- Fully Back

# Variable swing wings



- a) Which position is for fast flying?

- b) Which position is for take-off & landing?



12. The Tornado has 2 engines. The exhaust smoke often makes the tail b \_\_\_\_\_!



13. The 2 engines are Turbo-union RB-199 with afterburners.

- ✓ The air goes in
- ✓ The air is compressed
- ✓ The air & fuel mix
- ✓ The air is ignited
- ✓ The air burns hot
- ✓ The air escapes out the exhaust!



14. To slow down, buckets come down over the Ex \_\_\_\_\_, and sends the hot air in the opposite direction!