010-06-02

Transponder operating procedures and phraseology: key figures

8 figures in 5 groups. Read the cue, say the figure, then check. Each group ends with a recap.
Rules change: check the regulation in force.

Unique combination assigned to each aircraft

24 bits

Aircraft address for Mode S communication, navigation and surveillance

Definitions: recap

CUE	FIGURE	DETAIL
Unique combination assigned to each aircraft	**24 bits**	Aircraft address for Mode S communication, navigation and surveillance

> **24 bits identify each aircraft in Mode S.**

No ATS code instructions

2000

Default code, unless the competent authority prescribes another code

Not receiving air traffic services

7000

Conspicuity code, unless the competent authority prescribes otherwise

Normal codes: recap

CUE	FIGURE	DETAIL
No ATS code instructions	2000	Default code, unless the competent authority prescribes another code
Not receiving air traffic services	7000	Conspicuity code, unless the competent authority prescribes otherwise

> **2000 without instructions; 7000 without air traffic services.**

Emergency, unless ATS assigned a specific code

7700

Emergency code; also distress, interception and emergency descent

Radio-communication failure

7600

Select to indicate radio-communication failure

Unlawful interference

7500

Use 7700 instead if circumstances warrant

Special codes: recap

CUE	FIGURE	DETAIL
Emergency, unless ATS assigned a specific code	7700	Emergency code; also distress, interception and emergency descent
Radio-communication failure	7600	Select to indicate radio-communication failure
Unlawful interference	7500	Use 7700 instead if circumstances warrant

> **7700 emergency, 7600 radio, 7500 unlawful interference.**

ATS verification of the Mode C level

At least once

On initial contact, or as soon as possible after, unless the competent authority prescribes otherwise

Mode C: recap

CUE	FIGURE	DETAIL
ATS verification of the Mode C level	**At least once**	On initial contact, or as soon as possible after, unless the competent authority prescribes otherwise

Codes available in Mode A (four digits)

4 096 codes

Four digits per code (Item 10 "A" and "C")

Flight plan: recap

CUE	FIGURE	DETAIL
Codes available in Mode A (four digits)	**4 096 codes**	Four digits per code (Item 10 "A" and "C")

> **4 096 codes: four digits.**