



SUPPLEMENT

ATC TRANSPONDER

BENDIX/KING KT 76A

Registration mark:

Serial number:

This Supplement must be contained in the Aircraft Operating Instructions if transponder BENDIX/KING KT 76 A is installed on the airplane in accordance with the approved airplane manufacturer documentation.

Information contained in this Supplement add or replace information from the basic Aircraft Operating Instructions in the further mentioned parts only. Limitations, procedures and information not mentioned in this Supplement are contained in the basic Aircraft Operating Instructions.



RECORD OF REVISIONS

| Rev. No. | Affected Pages | Description/Validity | Approved /Date | Incorporated/Date |
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ATC TRANSPONDER KT 76A

SECTION 1 – GENERAL

This Supplement adds information necessary for operation of the airplane with the ATC transponder BENDIX/KING KT 76A that is installed in accordance with the approved airplane manufacturer documentation.

SECTION 2 – LIMITATIONS

The transponder must be switched off during engine starting.

SECTION 3 – EMERGENCY PROCEDURES

Meaning of emergency codes: **7500** – subject of illegal action
7600 – radiocommunication off
7700 – state of emergency
0000 – DO NOT USE, it is designed for military purposes

SECTION 4 – STANDARD PROCEDURES

SWITCHING ON THE TRANSPONDER

Before engine starting make sure that the transponder is switched off (OFF position).
Switch the transponder on after its starting up.

1. Knobs of code selection SET the required code

After engine starting set the mode selector to SBY position.

2. Mode selector **SBY**

Wait 45–50 second until the transponder is able to transmit. The transponder is in waiting mode now, it is ready for transmitting.

3. Mode selector **ON** or **ALT**

After take-off switch to ON position (the transponder will transmit in A mode) or to ALT position (the transmitter will transmit in A and also C mode, i.e. it will transmit airplane altitude, too)



RESETTING THE CODE

- 1. Mode selector **SBY**
- 2. Knobs for code selection SET the required code
- 3. Mode selector **ON** or **ALT**

The required code is loaded in permanent memory (it does not require battery feeding) and will be transmitted automatically until it is resetted.

CAUTION

CODES MUST BE SET ACCORDING TO VALID REGULATIONS FOR AIRPLANE OPERATION OR ACCORDING TO ATC. INSTRUCTIONS (STANDARD TRANSPONDER SETTING CODE FOR FLIGHTS IN CONTROLLED AREA IS 2000 (UNLESS ATC SETS ANOTHER ONE), FOR FLIGHTS IN NON-CONTROLLED AREA IS STANDARD TRANSPONDER SETTING CODE 7000).

TRANSPONDER MUST NOT BE SWITCHED ON TO "ON" OR "ALT" MODE WITH SET EMERGENCY CODE 7500, 7600, 7700.

TRANSPONDER CODER CODES STANDARD ALTITUDE (29.92 in-Hg OR 1013.2 hPa).

If ATC requires for switching off transmitting altitude:

- 1. Mode selector **ON**

Responder is liable for all valid requests in A mode. Information on altitude in C mode are suppressed. .

If ATC requires for IDENT transmitting:

- 1. **IDENT** button PRESS DOWN

The transponder will transmit code in A mode and special identification signal enabling ATC better to identify the airplane in a heavy traffic. During this time the transponder light above IDENT button will light. .

TESTING TRANSPONDER FUNCTION

- 1. Mode selector HOLD IN POSITION **TST**

Transponder light will light up permanently at a proper feeding.



SECTION 5 – PERFORMANCE – NOT AFFECTED

SECTION 6 – WEIGHT AND BALANCE – NOT AFFECTED

SECTION 7 – AIRPLANE AND SYSTEM DESCRIPTION

Transponder KT 76A is a part of radiolocation ATC system installed on the airplane board. It enables air traffic controller to identify the airplane on the radar screen. In connection with the altitude encoder the transponder can transmit flight level of the airplane.

If interrogated by a ground radar in A mode, the transponder will respond by transmitting the encoded four–digit identification number allocated by the air traffic controller. This code is entered by pilot into the responder and on the basis of it the air traffic controller can identify every airplane equipped with the transponder according to the set code. Code information is displayed on the ground radar screen in an appropriate area and azimuth.

Responder can send information on flight level altitude with step of 100 ft within the range from 1000 to 35 000 ft.

By turning the mode selector (Fig. 1) the individual modes of the transponder OFF, SBY, TST, ON and ALT can be selected. Special identification code transmitting for ATC. needs is activated by **IDENT** button.

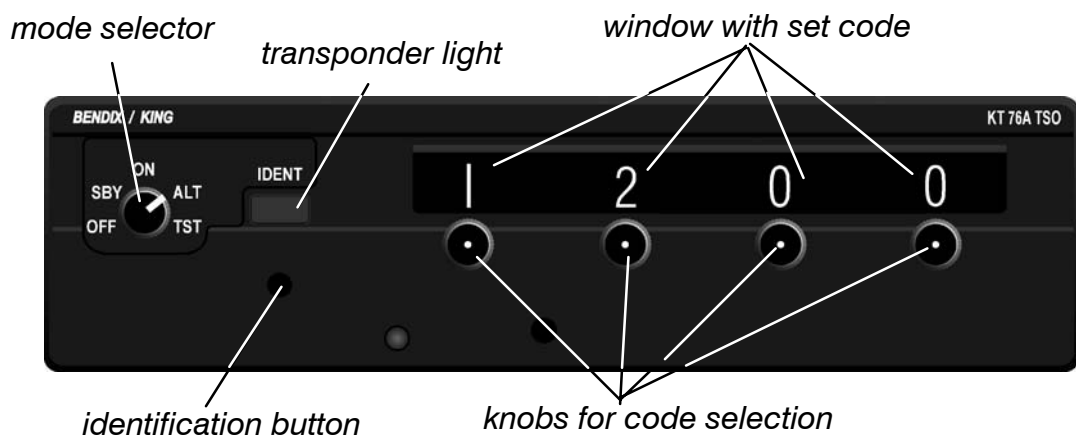


Figure 1 Front panel KT 76A

The transponder is not supplied with power in OFF mode (switched off).

In SBY (standby) mode the transponder is supplied but does not transmit answers. It is possible to reset code in this mode.

Section 9

Transponder KT 76A

SPORTSTAR

AIRCRAFT OPERATING INSTRUCTIONS



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In TST mode (testing) the transponder light is permanently on.

In On mode (operation) answers are transmitted to all valid interrogations in A mode.

In ALT mode (altitude) answers are transmitted to all valid interrogations in A and C mode. Information on altitude are transmitted in C mode.

Transponder transmission is automatic and is indicated by transponder light flashing above IDENT button within interval of 10–15 s. Transponder light can light on more often, possibly nearly permanently in case of location by more radars.

SECTION 8 – AIRPLANE HANDLING, SERVICING AND MAINTENANCE NOT AFFECTED