SUPPLEMENT A19

TO THE AIRPLANE FLIGHT MANUAL

DA 40, DA 40 F

TRANSPONDER

GTX 327

GARMIN

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DA 40 AFM

DA 40 F AFM

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Supplement A19
Transponder, GTX 327

0.1   RECORD OF REVISIONS

Rev. No.	Reason	Chapter	Page(s)	Date of Revision	Approval Note	Approval Date	Date Inserted	Signature
1	DA 40 F AFM Rev. 0 EASA Statement	all	all	15 Mar 2005	EASA 2005-3345			

0.2   LIST OF EFFECTIVE PAGES

Chapter	Page	Date
0	9-A19-0	15 Mar 2005
	9-A19-1	15 Mar 2005
	9-A19-2	15 Mar 2005
	9-A19-3	15 Mar 2005
1, 2, 3, 4A	9-A19-4	15 Mar 2005
4B, 5, 6	9-A19-5	15 Mar 2005
7	9-A19-5	15 Mar 2005
	9-A19-6	15 Mar 2005
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1. GENERAL

This Supplement supplies the information necessary for the efficient operation of the airplane when the Transponder GTX 327 is installed. The information contained within this Supplement is to be used in conjunction with the complete AFM.

This Supplement is a permanent part of this AFM and must remain in this AFM at all times when the Transponder GTX 327 is installed.

2. LIMITATIONS

No change.

3. EMERGENCY PROCEDURES

To transmit an emergency signal:

– ALT Key: PRESS.

– Numeric Keys 0-7: Select 7700 operating code.

To transmit a signal representing loss of all communication (when in a controlled environment):

– ALT Key: PRESS.

– Numeric Keys 0-7: Select 7600 operating code.

4A. NORMAL OPERATING PROCEDURES

No change.

4B. ABNORMAL OPERATING PROCEDURES

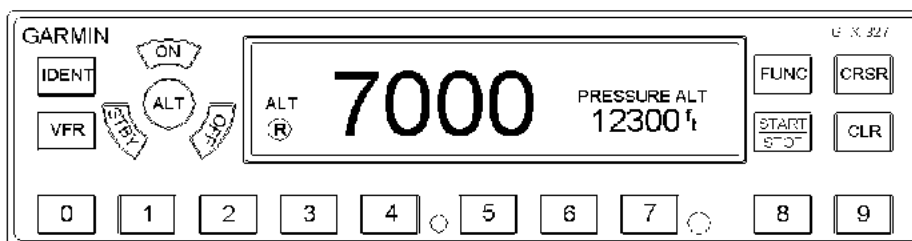No change.

5. PERFORMANCE

No change.

6. MASS AND BALANCE

Upon removal or installation of the Transponder GTX 327 the change of empty mass and corresponding center of gravity of the airplane must be recorded according to Chapter 6 of the Airplane Flight Manual.

7. DESCRIPTION OF THE AIRPLANE AND ITS SYSTEMS

7.14 AVIONICS

GENERAL

The GTX 327 transponder is powered on by pressing the STBY, ALT or ON keys. After power on a start-up page will be displayed while the unit performs a self test.

MODE SELECTION KEYS

OFF - Powers off the GTX 327.

STBY - Powers on the transponder in standby mode. When in STBY the transponder will not reply to any interrogations. At power on the last active identification code will be selected.

ON - Powers on the transponder in Mode A. At power on the last active identification code will be selected. In this mode, the transponder replies to interrogations, as indicated by the Reply Symbol ('®'). Replies do not include altitude information.

ALT - Powers on the transponder in Mode A and Mode C. At power on the last active identification code will be selected. In ALT mode, the transponder replies to identification and altitude interrogations, as indicated by the Reply Symbol ('®'). Replies to altitude interrogations include the standard pressure altitude received from an external altitude source, which is not adjusted for barometric pressure.

CODE SELECTION

Code selection is done with eight keys (0 - 7) that provide 4096 active identification codes. Pushing one of these keys begins the code selection sequence. The new code will not be activated until the fourth digit is entered. Pressing the CLR key will move the cursor back to the previous digit. Pressing the CLR key when the cursor is on the first digit of the code, or pressing the CRSR key during code entry, will remove the cursor and cancel data entry, restoring the previous code. The numbers 8 and 9 are not used for code entry, only for entering a Count Down time, and in the Configuration Mode.

KEYS FOR OTHER GTX 327 FUNCTIONS

IDENT -   Pressing the IDENT key activates the Special Position Identification (SPI) Pulse for 18 seconds, identifying your transponder return from others on the air traffic controller´s screen. The word 'IDENT' will appear in the upper left corner of the display while the IDENT mode is active.

VFR -   Sets the transponder code to the pre-programmed VFR code selected in Configuration Mode. Pressing the VFR button again will restore the previous identification code.

FUNC - Changes the page shown on the right side of the display. Displayed data includes Pressure Altitude, Flight Time, Count up timer, Count down timer, and may include Contrast, and Display Brightness, depending on configuration:

Pressure ALT: Displays the altitude data supplied to the GTX 327 in feet, hundreds of feet (i.e., flight level), or meters, depending on configuration.

Flight Time: Displays the flight time, which is controlled by the START/STOP key.

Count Up Timer: Controlled by START/STOP and CLR keys.

Count Down Timer: Controlled by START/STOP, CLR, and CRSR keys. The initial Count Down time is entered with the 0 - 9 keys.

Contrast: This page is only displayed if manual contrast mode is selected in Configuration Mode. Contrast is controlled by the 8 and 9 keys.

Display Brightness: This page is only displayed if manual backlighting mode is selected in Configuration Mode. Backlighting is controlled by the 8 and 9 keys.

START/STOP - Starts and stops the Count Up and Count Down timers.

CRSR - Initiates entry of the starting time for the Count Down timer and cancels transponder code entry.

CLR - Resets the Count Up and Count Down timers and cancels the previous keypress during code selection.

8 -   Reduces Contrast and Display Brightness when the respective pages are displayed. Also enters the number eight into the Count Down timer.

9 -   Increases Contrast and Display Brightness when the respective pages are displayed. Also enters the number nine into the Count Down timer.

ALTITUDE TREND INDICATOR

When the 'PRESSURE ALT' page is displayed, an arrow may be displayed to the right of the altitude, indicating that the altitude is increasing or decreasing. Two sizes of arrows may be displayed depending on the rate of climb/descent. The sensitivity of these arrows is set using the GTX 327 Configuration Mode.

TIMER OPERATION

TO OPERATE THE FLIGHT TIMER:

1.   Press the FUNC key until 'FLIGHT TIME' is displayed.

2.   If desired, you may press START/STOP to pause or restart the timer.

3.   Press CLR to reset the timer to zero.

TO OPERATE THE COUNT UP TIMER:

1.   Press the FUNC key until 'COUNT UP' is displayed.

2.   If necessary, press CLR to reset the Count Up timer to zero.

3.   Press START/STOP to count up.

4.   Press START/STOP again to pause the timer.

5.   Press CLR to reset the timer to zero.

TO OPERATE THE COUNT DOWN TIMER:

1.   Press the FUNC key until 'COUNT DOWN' is displayed.

2.   Press CRSR and use the 0 - 9 keys to set the initial time. All digits must be entered (use the 0 key to enter leading zeros).

3.   Press START/STOP to count down.

4.   Press START/STOP again to pause the timer.

5.   When the Count Down timer expires, the words 'COUNT DOWN' are replaced with 'EXPIRED', and the time begins counting up and flashing.

6.   Press CLR to reset the timer to the initial time value.

8. HANDLING, SERVICING AND MAINTENANCE

No change.