

SERVICE BULLETIN

TBM AIRCRAFT

SB 70-225	34 ATA No.
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RECOMMENDED

The technical content of this document is approved
 under the authority of DOA No. EASA.21J.013

SUBJECT : GTX 33 CONFIGURATION ADS-B OUT

REFERENCE : MODIFICATION No. MOD70-0264-34

EFFECTIVITY : Aircraft TBM 850 S/N 434 to S/N 684 equipped with MOD70-0264-34 "MODE S TRANSPONDER WITH EXTENDED SQUITTER" and MOD70-0383-00 Version C "GARMIN G1000 GDU SOFTWARE VERSION 14.02" loaded at the factory or loaded through the application of SB70-215-34.
 Aircraft TBM 900 S/N 1000 to S/N 1050, plus S/N 687 equipped with MOD70-0264-34 "MODE S TRANSPONDER WITH EXTENDED SQUITTER" and MOD70-0383-00 Version B "GARMIN G1000 GDU SOFTWARE VERSION 14.02" loaded at the factory or loaded through the application of SB70-216-34.

NOTE :

For the other aircraft, the modification MOD70-0264-34 is applied at the factory.

PURPOSE :

- A. PROBLEM
 Incorrect setting of ADS-B OUT function.
- B. REASON
 Error in the system setting.
- C. SOLUTION
 "SOURCE INTEGRITY" parameter modification.

DESCRIPTION: Modification of transponder source integrity parameter.

APPLICATION : At user's convenience.

WARRANTY : Parts and Manhours will be covered under warranty regardless of the warranty status of the aircraft. This campaign will end 1 year and 1 month after the SB issuance reference date.

CONSUMABLE MATERIAL or OTHER PRODUCTS (Local purchase) :

- Not applicable

TOOLS :

- Standard aeronautical maintenance station tools

MANPOWER :

- 1 aeronautical mechanic : 1 hour

TECHNICAL INCIDENCES :

- Not applicable

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DESCRIPTION OF ACCOMPLISHMENT INSTRUCTIONS :

NOTE :

Operations required in this Service Bulletin must be accomplished by persons authorized by their Airworthiness Authorities and according to the procedure described hereafter.

NOTE :

Refer to in force technical documentation GARMIN “G1000 Line Maintenance Manual” (LMM) P/N 190-00871-00 (rev P and above).

- 1) Make sure the “SOURCE” and “AP TRIMS” selectors are set to “OFF”, and the crash lever is down.

Aircraft from S/N 434 to 684

- 2) Make sure the “AVIONICS MASTER” selector is set to “OFF”.

All

- 3) Connect the ground power unit – refer to Chapter 24–40–00 of the Maintenance Manual.
- 4) ON PL1 panel, pull “PFD1”, “PFD2” and “MFD” circuit breakers.
- 5) Set “SOURCE” selector to “GPU”.

Aircraft from S/N 434 to 684

- 6) Set “AVIONICS MASTER” selector to “ON”.

All

- 7) Set “AP TRIMS” selector to “ON”.
- 8) Successively start “PFD1”, “PFD2” and “MFD” screens in configuration mode.

NOTE :

To start “PFD” in configuration mode, press and hold “ENT” softkey and close corresponding circuit breaker. To start “MFD” press and hold softkey 12 and close corresponding circuit breaker. Release softkey when “INITIALIZING SYSTEM” message appears on the screen.

- 9) On PFD1, select the “GTx” page group, then select the “TRANSPONDER CONFIGURATION” page and note recorded configuration parameters on Table 1 (XPDR#1 and, if installed, XPDR#2).

Aircraft equipped with a second transponder MOD70–0176–00 – Version E

- 10) Select “GIA” page group and then select the “SERIAL CONFIGURATION” page.
- 11) Using FMS knob, select GIA2.
- 12) Set the GIA2/RS–232/CHNL 5 input and output to OFF.

All

- 13) Select “GTx” page group, and then select the “TRANSPONDER CONFIGURATION” page.
- 14) Replace the “SOURCE INTEGRITY” value 1×10^{-5} ERR/HR FLT by the value 1×10^{-7} ERR/HR FLT

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Aircraft equipped with a second transponder MOD70–0176–00 – Version E

- 15) Select “GIA” page group and then select the “SERIAL CONFIGURATION” page.
- 16) Using FMS knob, select GIA2.
- 17) Set the GIA2/RS–232/CHNL 5 input and output to “GTx33 #2 w/TIS”.

All

- 18) Select “GTx” page group, and then select the “TRANSPONDER CONFIGURATION” page.
- 19) In accordance with Table 1 and Table 2, check transponder configuration parameters.
- 20) Select “SYSTEM” page group, then go to “AIRCRAFT CONFIGURATION” and check that “GTx 1” and, if installed, “GTx 2” are marked with green tick.
- 21) Perform a transponder test – Refer to “LMM” Paragraph 4.9.2.
- 22) Set “AP TRIMS” to “OFF”.

Aircraft from S/N 434 to 684

- 23) Set “AVIONICS MASTER” selector to “OFF”.

All

- 24) Disconnect ground power unit – refer to Chapter 24–40–00 of the Maintenance Manual.

UPDATING OF THE AIRCRAFT DOCUMENTATION :

Upon completion of Service Bulletin No. SB 70–225–34 “GTx 33 CONFIGURATION ADS-B OUT”, make an appropriate maintenance record entry.

WARNING : SOCATA considers that it is VERY IMPORTANT for operators to comply with the instructions of this SB.

Operators who arbitrarily ignore the compliance statement indicated in this SB do so at their own risk.

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TBM S/N :

Date

XPDR	XPDR 1	XPDR 2 (if installed)
VFR code		
Aircraft weight		
Max Airspeed		
Address Type		
ICAO Address		
Flight ID Type		
Flight ID		
ENHANCED SURVEIL		

Table 1

XPDR 1

CONFIGURATION FRAME	
LATERAL OFFSET FROM CENTER (M)	UNKNOWN
LONGITUDINAL OFFSET FROM NOSE (M)	UNKNOWN
AIRFRAME CONFIGURATION FRAME	
1090 IN	ENABLED
UAT IN	DISABLED
ADS–B TRANSMIT	ENABLED
AIRCRAFT WIDTH	≤ 23 MT
AIRCRAFT LENGTH	≤ 15 MT
SURVEIL INTEGRITY	$< 1 \times 10^{-7}$ ERR/HR FLT

Table 2