

TEMPORARY REVISION

AMM-TR-OÄM 42-371/a

supersedes AMM-TR-OÄM 42-371

Garmin GTS8xx Traffic Advisory System

This Temporary Revision AMM-TR-OÄM 42-371/a is approved in conjunction with the Optional Design Change Advisory OÄM 42-371/a and is valid in conjunction with the Airplane Maintenance Manual (AMM) until this Temporary Revision has been incorporated into the AMM.

The limitations and information contained herein either supplement or, in the case of conflict, override those in the AMM.

The technical information contained in this document has been approved under the authority of DOA No. EASA.21J.052.

Doc. No.	Section	Affected Pages
7.02.15	34-00-00	2a, 2aa
	34-40-00	1a, 1aa
	34-42-00	1a, 1aa, 101a, 101aa, 201a, 202a, 204a, 204aa
	92-00-00	2a, 2aa

Instruction

- Print this document double-sided on yellow paper (odd pages and "a" pages on front sides, even pages and "aa" pages on reverse sides).
- Insert this cover page as the first page of the AMM.
- Insert the other pages of this Temporary Revision in front of the corresponding AMM pages.

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AFFECTED CHAPTERS:**CHAPTER 34**
NAVIGATION

The following paragraph is amended to read:

2. Description**D. Independent Position Determining**

The DA 42 NG may be equipped with the following independent position determining systems:

- Stormscope system, consisting of stormscope processor and stormscope antenna.
- Traffic advisory system, consisting of a processor, two antennas and a transponder coupler (optional).

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Section 34-40
Independent Position Determining

The following paragraph is amended to read:

1. General

This Section tells you about the independent position determining systems that can be installed in the DA 42 NG. Refer to these Sections for data about the systems:

Section 34-41. Stormscope system (OÄM 42-057).

Section 34-42. Traffic advisory system (TAS).

Section 34-43. Weather Radar System.



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Section 34-42

Traffic Advisory System

The following paragraphs are amended to read:

1. General

This Section tells you about the traffic advisory system that can be installed in the DA 42 NG. Refer to the manufacturer's manual for more data about the equipment.

The TAS consists of the following items:

- Processor.
- Transponder coupler (optional).
- Top antenna.
- Bottom antenna.

2. Description and Operation

The Ryan/Avidyne and Garmin traffic advisory systems (collectively know as TASs) are actively interrogating on-board air traffic detection systems used to identify potential collision threats. The TAS computes relative altitude and range of threats from nearby transponder-equipped airplanes. Airplanes with non-Mode C transponders can provide range information. The TAS does not detect airplanes without an operating transponder.

A. Processor

The TAS processor is tray mounted and is located behind the first ring frame.

The AVIONICS BUS supplies power to the traffic advisory system. The ELECT. MASTER switch and the AV. MASTER switch must be set to ON to supply power through the TAS circuit breaker to the traffic advisory system.

The TAS processor communicates to the Garmin G1000 system which indicates nearby traffic on the MFD. All functions of the TAS are controlled through the MFD.

B. Transponder Coupler (optional)

The transponder coupler is mounted on the remote avionic box of the Garmin G1000 system. The transponder coupler supplies the processor with a signal indicating the on-board transponder is transmitting a reply.

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Trouble-Shooting

1. General

The following item is amended to read:

Trouble	Possible Cause	Repair
TAS does not operate.	Circuit breaker not set. Improper configuration (Garmin). Faulty cables/connectors.	Set the circuit breaker. Reconfigure the Traffic System. Do a test for continuity on each cable. Do a test for short circuit to ground and between cables. Replace defective cables.

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Maintenance Practice

2. Remove/Install the TAS Processor

A. Remove the TAS Processor

The step is amended to read:

	Detail Steps/Work Items	Key Items/References
(5)	Loosen the diagonal retaining screws that attaches the processor to its mounting tray.	Avidyne.

The following step is added to the existing procedure:

	Detail Steps/Work Items	Key Items/References
(5a)	Loosen the unit hold down clamp by turning it counterclockwise until it disengages the unit hold down tap.	

B. Install the TAS Processor

The following steps are amended to read:

	Detail Steps/Work Items	Key Items/References
(2)	Tighten the diagonal retaining screws that attached the processor to its mounting tray.	Avidyne.
(6)	Do a test of the traffic advisory system.	Refer to the Avidyne TAS Installation Manual, latest revision or to the Garmin Line Maintenance Manual.

The following step is added to the existing procedure:

	Detail Steps/Work Items	Key Items/References
(2a)	Pull the locking clamp up and turn it clockwise to tightly engage the hold down tap.	

The headline is amended to read:

3. Remove/Install the Transponder Coupler (optional)

4. Remove/Install a TAS Antenna

B. Install a TAS Antenna

The following step is amended to read:

	Detail Steps/Work Items	Key Items/References
(9)	Do a test of the traffic advisory system.	Refer to the Avidyne TAS Installation Manual, latest revision, or to the Garmin Line Maintenance Manual.

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CHAPTER 92
WIRING DIAGRAMS

1. General

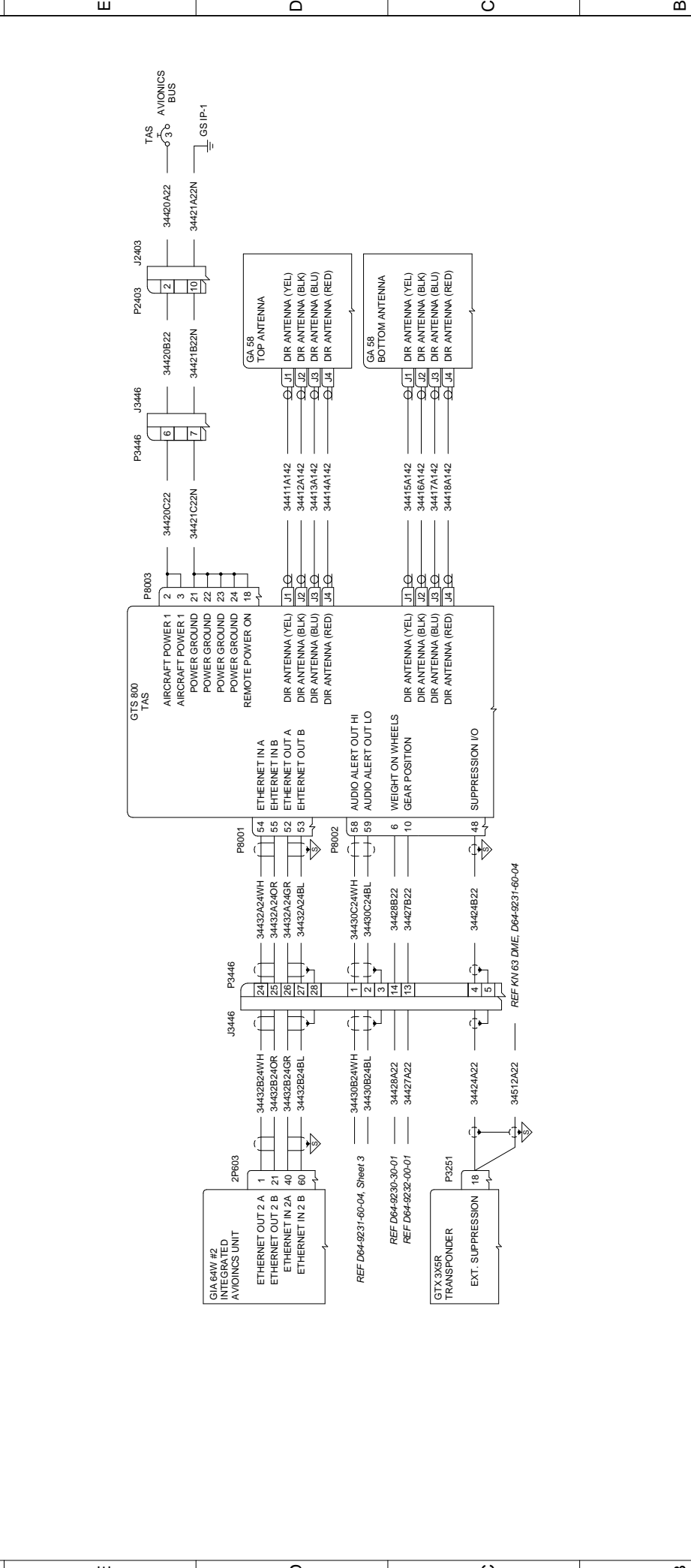
The following item is added to the existing list:

Title	Drawing No.	Rev. No.	No. of Sheets
Schematic, GTS 800 Wiring	D64-9231-60-01x03	B	1



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REV	SH	ZONE	DESCRIPTION	DATE
-	01	ALL	NAD-RELEASE NEW DRAWING, DOES NOT SUPERSEDE ANOTHER DRAWING	19-NOV-2020
A	01	ALL	OAM 42-371 ARINC CONNECTION REMOVED. EXTERNAL SUPPRESSION CONNECTION CORRECTED. WIRE NUMBER CORRECTED	24-AUG-2022
B	01	ALL	OAM 42-371 Ethernet connection changed from MFD to GIA#2, wire number of ethernet connection changed, connector pinout P3446 changed	23-DEC-2022



IDENTIFICATION MARKINGS DP-S-17-00001	FIRST ANGLE PROJECTION	DIMENSIONS METRIC / mm	PROJECT DA 42 NG	Diamond Aircraft Industries GmbH
			WEIGHT: N/A	INTERCHANGEABLE PART NO
CLASSIFICATION: NONE	NAME / SIGN / DATE	TITLE SCHEMATIC, GTS 800 WIRING		
IF NOT OTHERWISE SPECIFIED GEOMETRIC DIMENSIONING AND TOLERANCING ACC. TO ISO 2768-mK	SCALE 3:2	DWGNO: D64-9231-60-04X03		
	FORMAT A3	NEXT HIGHER ASSY N/A		
	SOLID EDGE PDM N	RELEASED:		
		CHECKED:		
		REV "B"		
		FILENAME D64-9231-60-04X03b.dft		