

BendixKing Buyers Guide

2017BK - O - MST

ATTENTION AIRCRAFT OPERATOR



MST 70B ADS-B OUT Transponder Retrofit of the MST 67A Transponder

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BendixKing
9201-B San Mateo Blvd. NE
Albuquerque, NM 87118
Phone (505) 828 6000

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MST 70B ADS-B OUT Transponder Retrofit of the MST 67A Transponder

1. Introduction

1.1 Purpose of this Buyers Guide

BendixKing is pleased to offer the MST 70B Mode S ADS-B OUT Transponder Buyers Guide.

This Buyers Guide will provide information on BendixKing MST 70B. It describes the simplest way to upgrade your MST 67A equipped business aircraft to be compliant with the global ADS-B OUT mandates while maintaining the integrity of one manufacturer for your TCAS II system.

1.2 Product Description

The MST 70B is a global mandate-compliant ADS-B transponder designed as a direct replacement for MST 67A transponders. By reusing the existing mounting trays and connectors, we'll help you avoid significant downtime.

The MST 70B offers:

- Form factor compatible retrofit for existing BendixKing MST 67A Transponder
- Compatible with the popular BendixKing CAS 67A and CAS 67B TCAS II systems
- Certified for most popular business legacy aircraft
- Simplified installation using existing MST 67A rack and connector reducing installation cost and aircraft downtime
- Meets global ADS-B OUT mandate requirements
- Lightweight and low power consumption

With airspace becoming increasingly crowded; situational awareness mandates by global international regulatory agencies are being approved every year. Automatic Dependent Surveillance-Broadcast (ADS-B) is one such mandate that becomes effective starting on January 1st, 2020 for the airspace that has adopted FAA rules.

Other countries have also issued ADS-B OUT mandates requiring similar compliance. ADS-B brings both safety and significant cost efficiencies to operators, pilots and ultimately, travelers in every segment of aviation. The MST 70B serves as a key solution for business class aircraft that have been mandated for operation within the global surveillance ADS-B airspace infrastructure. It brings new capabilities to your current traffic and surveillance system with a transition to ADS-B OUT.

1.3 AML STC Certification

To further ease the installation and approval of the MST 70B, an AML STC (AML STC # ST02609LA) has been approved that covers most of the equipment and many of the aircraft in which the MST 67A was installed. A summary of the aircraft that are covered by this AML STC can be found in Table 1-1 below. The equipment the MST 70B is currently approved with can be found in Section 2. If your aircraft is not listed in the AML STC, please contact our BendixKing Area Sales Manager (see Section 6).

Aircraft Make	Aircraft Model	Original Type Certificate Number
Dassault Aviation	Falcon 10	A33EU
Bombardier Inc.	CL-600-1A11 (CL-600) CL-600-2A12 (CL-601) CL-600-2B16 (CL-604)	A21EA
Bombardier	DHC-7-1 DHC-7-100 DHC-7-101 DHC-7-102 DHC-7-103	A20EA
Bombardier	DHC-8-100 Series DHC-8-200 Series DHC-8-300 Series	A13NM
Textron Aviation Inc.	550 560 S550	A22CE
Textron Aviation Inc.	650	A9NM
Dassault Aviation	Mystere-Falcon 50 Mystere-Falcon 900 Falcon 900EX	A46EU
Dassault Aviation	Mystere-Falcon 20-C5 Mystere-Falcon 20-D5 Mystere-Falcon 20-E5 Mystere-Falcon 20-F5 Fan Jet Falcon Series E Mystere-Falcon 200 Fan Jet Falcon Series C	A7EU
Fokker Services	F28 Mark 1000	A20EU
Gulfstream Aerospace Corporation	G-1159B G-1159A G-1159 G-IV	A12EA
Israel Aircraft Industries, Ltd.	1124A, 1124	A2SW
Gulfstream Aerospace LP	1125 Westwind Astra	A16NM
Learjet Inc.	25, 31A, 25A, 35, 25B, 35A (C-21A), 25C, 36, 25D, 36A, 25F, 55, 31	A10CE
The Boeing Company	DC-9-15	A6WE

Aircraft Make	Aircraft Model	Original Type Certificate Number
Beechcraft Corporation	Bae.125 Series 800A (C-29A) Bae.125 Series 800A (U-125) Bae.125 Series 800B Hawker 800 Hawker 800XP HS.125 Series 700A Hawker 800 (U- 125A) DH.125 Series 400A	A3EU
Saab Aircraft AB	340A (SAAB- SF340A)	A52EU
Sabreliner Aviation LLC	NA-265-40 NA-265-60 NA-265-65	A2WE

Table 1-1 Aircraft Applicability

*Note: Additional required equipment is listed in Section 2.

2. Systems Compatibility Guide

2.1 MST 70B Equipment Compatibility Guide

Table 2-1 outlines the equipment that is approved for the MST 70B AML STC. This list will be periodically updated as the AML STC evolves.

Equipment	Details
Participating MST 67A Part Numbers	066-01143-0201 066-01143-0301 066-01143-0501 066-01143-0601 066-01143-1301 066-01143-1602 066-01143-2001 066-01143-2101
Approved GPS Sources Options for MST 70B ADS-B OUT Pairing	Universal UNS - 1Ew Universal UNS - 1Espw Universal UNS - 1Fw Universal UNS - 1Lw NXG-900 Remote WAAS GPS NZ-2000 part number 7018879-03040 (software version NZ6.1 or later)
Approved Control Units	KFS 578A CD 671C CTA 81Q PS 578

Equipment	Details
Approved ADC* *See Section 2.1.1 for additional information	Honeywell KDC-481T IS&S ADDU (Air Data Display Units)(Multiple) AZ-810
Approved TCAS II Systems	Honeywell CAS-67A (Change 7.0) Honeywell CAS-67B (Change 7.1) ACSS TCAS 2000 ACSS Surveillance Processor Honeywell TPA-81A (not 7.1)

Table 2-1 MST 70B AML STC Equipment Compatibility

2.1.1 Supplemental Air Data Computer Information

In addition to what is currently listed in the AML STC, BendixKing has determined that the air data computers listed in Table 2-2 should be compatible with the MST 70B. BendixKing as confirmed that these air data computers provide the ARINC 429 low speed label required by the AML STC. It is incumbent upon the installer to complete the verification steps outlined in Appendix A – Equipment Compatibility of the AML STC.

Manufacturer	Model	Output	Part Number
Honeywell	AZ-850	ARINC 429	7014700-920
Honeywell	AM-250	ARINC 429	70256N02D02
Honeywell	AM-250	ARINC 429	70259N01D0
Honeywell	AM-250	ARINC 429	70260N01D01
Honeywell	AZ-252	ARINC 429	7024900-30303

Table 2-2 Additional Air Data Computers

3. Technical Characteristics

3.1 MST 70B Physical Characteristics

Table 3-1 outlines the physical characteristics of the MST 70B.

Property	Details
Length	12.62 in. (320.5 mm)
Width	2.25 in. (57.15 mm)
Height	7.62 in. (193.5 mm)
Maximum Weight	5.5 lbs. (2.5 kg)

Table 3-1 MST 70B Physical Characteristics

3.2 MST 70B General Specification

Table 3-2 outlines the general specifications for the MST 70B.

Property	Details
Operating Voltage	+18.0 V to +30.3 V dc (+27.5 V dc nominal); Receive mode: 1 A nominal at 27.5 V dc
Current	Transmit mode: 2 A nominal at 27.5 V dc
Power Consumption: Standby Mode (No Replies) Active Mode (Maximum Load) External Circuit Breaker Rating	28 Watts nominal at +27.5 V dc 55 Watts maximum at +27.5 V dc 5 A at +27.5 V dc
Cooling Requirements	Fan installed on unit
Tray Connector	ARINC 404A 2 Ganged Connector w/ Signal Pins (DSX2H24S35X0001) or BendixKing Part Number 030-03106-0000 ARINC 404A, Type DPX2MA, connector hood.
Mounting	B/E Aerospace part number MT4-1000S (or MT4-1001S) or BendixKing Part Number 047-09406-0014.

Table 3-2 MST 70B General Specifications

3.3 NXG-900 Physical Characteristics

Table 3-3 outlines the physical characteristics of the NXG-900 GPS position source.

Property	Details
Length	6.50 in. (165.10 mm)
Width	4.78 in. (121.40 mm)
Height	2.29 in. (58.20 mm)
Maximum Weight	1.6 lbs. (0.73 kg)

Table 3-3 NXG-900 Physical Characteristics

3.4 NXG-900 General Specifications

Table 3-4 outlines the general specifications for the NXG-900.

Property	Details
Operating Voltage	+18.0 V to +32.2 V dc (+28.0 V dc nominal)
Current	0.32 A nominal at 28.0 V dc 0.41 A maximum at 28.0 V dc with all external interfaces enabled
Power Consumption: Nominal Maximum (All External Interfaces) External Circuit Breaker Rating	8.9 Watts nominal at +28.0 V dc 11.5 Watts maximum at +28.0 V dc 1.0 Amp “pull style” circuit breaker for the installations with 28VDC input.
Cooling Requirements	None required
Tray Connector	Included in Installation Kit P/N 9060-17250-01 (customer option; ordered separately)
Mounting	Directly to the airframe using 4 x #6 pan head screws

Table 3-4 NXG-900 General Specifications

4. 2017 Pricing for the MST 70B Retrofit Solution

Below is the List price for the MST 70B and the NXG-900 GPS position source that can be paired with the MST 70B.

Model	Part Number	Description	List	Qty/ Aircraft	Extended List
MST 70B	9007000-57001	ADS-B OUT XPNDR	\$31,995.00	2	\$63,990.00
NXG 900	9009000-55000	GPS for MST 70B (option)	\$9,895.00	1	\$9,895.00
AML STC	9001170-002	ADS-B OUT STC	\$10,000.00	1	\$10,000.00
Total			\$51,890.00		\$83,885.00

Table 4-1 MST 70B System Pricing

5. Promotions

We will be running promotions throughout the 2017. Please contact your local dealer or BendixKing at <http://www.bendixking.com/Current-Promotions> for latest promotions.

6. Ordering Information

To order products referenced in this Buyers Guide please contact an authorized BendixKing dealer by using our dealer locator at <http://www.bendixking.com/Dealer-Search>.

7. Contact Information

Please feel free to contact your local BendixKing Area Sales Manager if you have any questions regarding this Buyers Guide or if you need assistance.

The BendixKing sales team contact information can be found below or by clicking on the following link: <https://www.bendixking.com/Company/Sales-Team>:

Midwest, USA / East. Can.

WI, IL, IN, MI,
OH, NY, PA, CT, NJ,
VT, NH, MA, ME, RI

Ed Bannen
Area Sales Manager
Columbus, OH
Cell: 614-270-5560

edward.bannen@bendixking.com

Southeast, USA

DE, MD, WV, VA
NC, SC, KY, TN, GA, AL,
MS, LA, AR, OK

Steve Gray
Area Sales Manager
Greensboro, NC
Cell: 505-358-0642

stephen.gray@bendixking.com

South Central, USA TX

Steve Brown
Director of Sales, US/CAN
Austin, TX
Cell: 913-217-5063

stephen.brown3@bendixking.com

NW & N. Central USA / West Can.

WA, OR, HI, ID, MT, WY, ND,
SD, NE, KS, MN, IA, MO

Doug Hayden
Area Sales Manager
Tracy, CA
Cell: 801-899-5365

stephen.hayden@bendixking.com

Western USA CO, NM, UT, AZ, NV, CA, AK

Tom Olswang
Area Sales Manager
Woodland, CA
Cell: 530-383-9168

thomas.olswang@bendixking.com

Latin America

Michele Perrone
Area Sales Manager
Guarulhos, Brazil
Tel: +55-11-99170-8597

perrone.michele@honeywell.com

UK / Ireland / India & Middle East Also OEM – Europe / MEAI

Barrie Elliott
Area Sales Manager
Portsmouth, UK
Cell: +44 (0) 7970092004

barrie.elliott@honeywell.com

Europe / Africa

Isidor Hagl
Area Sales Manager
Raunheim, Germany
Tel: +49-8076-887-09-73
Cell: +49-171-58-90-182

isidor.hagl@honeywell.com

EMEA (East Europe, CIS, Russia, Turkey)

Jiri Vitek
Account Team Leader
Prague, Czech Republic
Tel: +420 234 625 394
Cell: +420 730 587 101

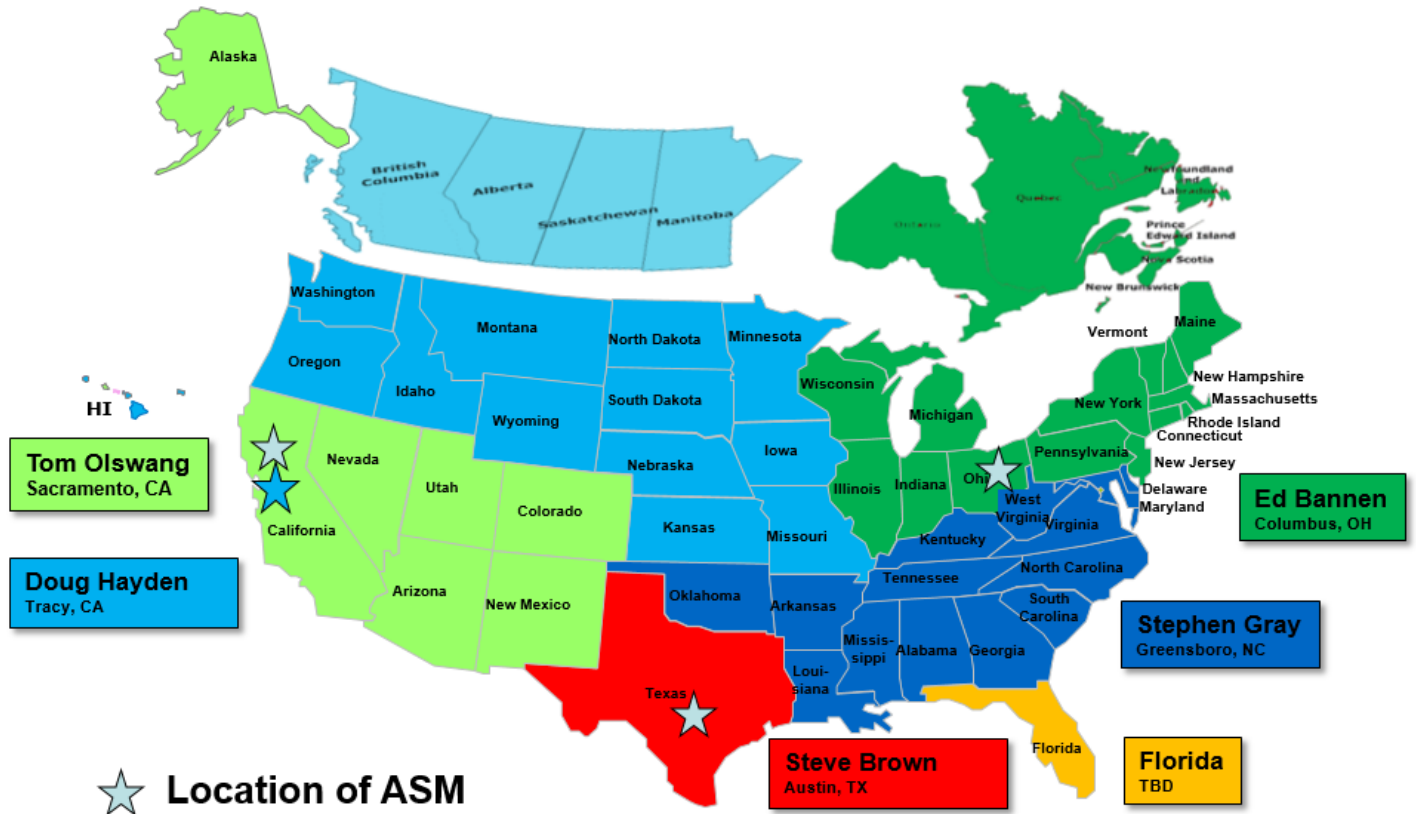
jiri.vitek2@honeywell.com

Asia Pacific (APAC)

Stuart Hills
Area Sales Manager
Abbotsford, Vic Australia
Cell: +61-419141364

stuart.hills@bendixking.com

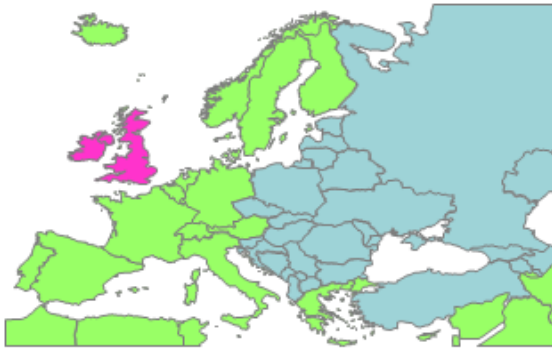
United States and Canada



Latin America



Europe, Africa, Middle East and India



**Eastern Europe /
Russia**

Jiri Vitek
Prague, Czech
Republic

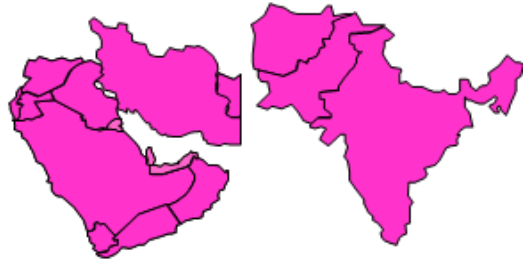
**UK / Middle East
India**

Barrie Elliott
Portsmouth, UK



Europe / Africa

Isidor Hagl
Munich,
Germany



Asia Pacific



Stuart Hills
Melbourne, Australia