

TCAS II and Change 7.1

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Providing total situational awareness of impending traffic conflicts.

Upgrade now and be prepared for the European Airspace mandate TCAS Change 7.1 for aircraft retrofits in December 2015. TCAS change 7.1 includes safety enhancements that reduce traffic conflicts and modify avoidance maneuvers. Rockwell Collins has perfect solutions to assist customers with increased traffic awareness. Our systems provide the enhanced situational awareness and mandate compliance required for operation in the increasingly dense air traffic environment.

NEW TCAS OPTIONS:

TTR-2100

- › Replaces TTR-921 or 920
- › AC Power
- › Six (6) MCU's
- › Change 7.1 Logic
- › Growth Path to ADS-B In

TTR-4100

- › Replaces TTR-4000 or 920
- › DC Power
- › Four (4) MCU's
- › Less Weight and space than a TTR-920
- › Change 7.1 Logic
- › Growth Path to ADS-B In

Note: Recognizing the immediate needs of our customers regarding the upcoming TCAS 7.1 mandate, Rockwell Collins will be extending production on our TTR-921 and 4000's on a limited basis. Production will transition to the new TTR-2100 and TTR-4100 throughout 2015 as each aircraft is added to the AML Supplemental Type Certificate (STC). Demand is expected to increase dramatically as the December 2015 mandate approaches and we encourage our customers to place their orders early in order to avoid a last minute rush.

KEY BENEFITS:

- › Enhanced crew awareness of traffic situations
- › New 7.1 logic allows either aircraft to issue a RA reversal in a TCAS to TCAS RA event
- › Changes "Adjust Vertical Speed" to "Level Off Level Off"
- › Automatically computes avoidance maneuvers with aural and visual commands
- › Analog and digital system interfaces for universal application and fleet commonality
- › Ability to interface with single or dual Mode S transponders
- › Data load features enables software revisions in avionics shops or on the aircraft
- › Internal diagnostics that allow accurate isolation of failures on the flight line as well as providing a fault history

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AML STC AVAILABLE

The Rockwell Collins FAA approved Model List (AML) STC #SA00907WI-D (Part 23) is available for updating your TTR-920, TTR-921 or TTR-4000.

The Rockwell Collins FAA approved Model (AML) STC #ST00881WI-D (Part 25) is available for updating your TTR-920, TTR-921 or TTR-4000.

The Rockwell Collins FAA approved Model (AML) STC #ST00881WI-D is now approved for the TTR-2100 on the following aircraft:

- Challenger 604
- CRJ 100/200/440
- CRJ 700/701/702/705/900
- Challenger 850/870/890

The TTR-2100 and TTR-4100 certification path will be determined on a platform by platform basis. As certifications are completed this bulletin will be updated to show the certification path.

Please contact Rockwell Collins Customer Account Administration for additional information.

TRADE-IN CREDITS

A trade-in credit will be issued against the purchase of a new TTR-2100/4100 upon Rockwell Collins receipt of a Rockwell Collins TTR-920. A trade-in credit will be issued against the purchase of a

new TTR-2100/4100 upon Rockwell Collins receipt of a Rockwell Collins TTR-921. Trade-ins are limited to one credit for each new TTR purchased. A credit will be issued to the dealer after the existing equipment is received at the Rockwell Collins Wichita Service Center, 2051 Airport Road, Wichita, Kansas 67209, phone number 316-677-4808. Dealer acceptance of the special pricing in this bulletin obligates the dealer to pass the applicable equipment trade-in amount in full to the aircraft end operator

SPECIAL OFFER

As a limited time special offer, with delivery required by September 30, 2015, a trade-in credit will be issued against the purchase of a new TTR-921 at the special program price, upon Rockwell Collins receipt of a Rockwell Collins TTR-920. This offer applies to limited quantities, while supplies last.

TERMS AND CONDITIONS

Unless otherwise noted, the programs listed are valid for orders placed between April 1, 2015 and December 31, 2015 with delivery requested by April 1, 2016. Warranty period for the new equipment within this program is two years and one year for modified equipment. Standard warranty does not apply to software.

For additional information, please contact your Rockwell Collins Authorized Dealer.

TCAS II With Elementary / Enhanced Surveillance Mode S – Example purchase of a TCAS replacement for your aircraft⁶

Type Number	Description	CPN	QTY ³
TTR-2100 (AC Power) ⁸ or TTR-4100 (DC Power) ⁸	TCAS II Processor	822-2911-001	1
TRE-920 ⁴	TCAS II Directional Antenna	622-8973-XXX	2
Example of Minimum Purchase - Shipset Total⁶			
TDR-94D ²	Mode S Diversity Transponder	622-9210-409	2
CTL-93T	TCAS II Control	822-2182-1XX	1
CTL-92E	Transponder Control	822-1807-XXX	1
Example of a TVI Purchase (Below)			
TVI-920D or TVI-920	TCAS/Vertical Speed Indicator	622-9728-XXX	2
	TCAS/Vertical Speed Indicator	622-9353-XXX	2

TCAS II CHANGE 7.1 UPGRADE

European mandate dates are Forward Fit March 2012; Retrofit December 2015.

1) The following items are required for TCAS II Change 7.1 through Customer Account Administration. The TTR-920 is not upgradable to Change 7.1. The TTR-920, part number 622-8971-XXX will need to be replaced with TTR-2100/4100/4000/921. A trade-in credit will only be issued against the purchase of a new TTR-2100 or TTR-4100.

New Type Number	New Part Number	QTY
TTR-2100 (AC Power) or TTR-4100 (DC Power) ⁵	822-2911-001 822-3075-001	1 1
AML STC Part 23 Aircraft or AML STC Part 25 Aircraft	Place order with Customer Account Administrations using STC #SA00907WI-D Place order with Customer Account Administrations using STC #ST00881WI-D	1

TTR-921 and TTR-4000 are upgradable to TCAS II Change 7.1 by Service Bulletin or Exchange.

2) The following items must be upgraded or exchanged, select 2A or 2B. To place an order for a Service Center upgrade, contact one of the following. For an exchange upgrade, contact Marilyn Miller at 319.295.0580.

Service Center	Phone Number	Email Address
Atlanta Service Center	770.991.7200	atlanta@rockwellcollins.com
Seattle Service Center	253.479.1200	seattle@rockwellcollins.com
Singapore Service Center	65.6542.2078	singapore@rockwellcollins.com
Toulouse, France Service Center	33.5.61.71.77.14	tls-sc@rockwellcollins.com

2A) Service Bulletin for TTR-921 or TTR-4000 Change 7.1 Upgrade

Type Number	Existing Part Number	New Part Number	QTY	Service Bulletin
TTR-921 or TTR-921 or TTR-4000 or TTR-4000 (Helo)	822-1293-002/003 822-1293-322 822-1294-002 822-1294-402	822-1293-033 822-1293-332 822-1294-032 822-1294-432	1 1 1 1	504 504 504 504

New Type Number	New Part Number	QTY
AML STC Part 23 Aircraft or AML STC Part 25 Aircraft	Place order with Customer Account Administration using STC #SA00907WI-D Place order with Customer Account Administration using STC #ST00881WI-D	1

2B) Exchange for TTR-921 or TTR-4000 Change 7.1 Upgrade

Type Number	Existing Part Number	New Part Number	QTY	Service Bulletin
TTR-921 or TTR-921 or TTR-4000 or TTR-4000 (Helo)	822-1293-002/003	822-1293-033	1	N/A
	822-1293-322	822-1293-332	1	N/A
	822-1294-002	822-1294-032	1	N/A
	822-1294-402	822-1294-432	1	N/A

New Type Number	New Part Number	QTY
AML STC Part 23 Aircraft or AML STC Part 25 Aircraft	Place order with Customer Account Administration using STC #SA00907WI-D Place order with Customer Account Administration using STC #ST00881WI-D	1

3) Legacy TCAS Processor Units⁷

Type Number	Description	CPN	QTY ³
TTR-921 or TTR-4000 or TTR-4000 (Helo)	TCAS II Processor	822-1293-033	1
	TCAS II Processor	822-1294-032	1
	TCAS II Processor	822-1294-432	1

NOTES

1. Shipset is calculated using TTR-2100/4100(1), TRE-920(2), TDR-94D(2), CTL-93T(1) and CTL-92E(1).
2. Optional TDR-94D, 622-9210-501 with ADS-B DO-260B Out capability is available.
3. All equipment quantities (QTY) listed on page 2 are the maximum allowed per shipset order.
4. There are a variety of antennas available. For more information, please contact your Rockwell Collins Authorized Dealer.
5. When replacing a TTR-920 with a TTR-4000 or TTR-4100, a new TCAS mount is required. Order CPN 270-2682-020.
6. Minimum shipset determined to be one of the following: (1) TTR-2100, or (1) TTR-4000, or (1) TTR-4100, or (1) TTR-921 and (2) TRE-920.
7. Subject to availability.
8. A TTR-4000 or TTR-921, may be substituted while supplies last.

How can we help?

Please call Rockwell Collins Customer Support at 319.295.5000.

Building trust every day.

Rockwell Collins delivers smart communication and aviation electronics solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information, contact:

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