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STC Information Sheet

FAA STC: ST02660NY-D

Master Drawing List: 0166-07020-2229

Aircraft: Embraer EMB-120ER

Configuration: 1

Rockwell Collins TCAS-94 TCAS II and TDR-94D Mode S Transponder Installation

Mod. Order: 2-93803-800

AFMS: 0666-07021-2229

Master Kit List: 2-93803-801

ICA: 0766-07022-2229

Summary:

The Rockwell Collins TCAS-94 Traffic Alert and Collision Avoidance System (TCAS) II consists of a TTR-921 (Change 7.0) TCAS Transmitter-Receiver, replacement of the existing TDR-94 Mode S Non-Diversity Transponder with a TDR-94D Mode S Transponder, installation of an upper TRE-920 TCAS Directional Antenna and reuse of an existing lower TCAS Omni-Directional (L-Band) Antenna, installation of the upper Mode S Antenna and reuse of the existing lower Mode S Antenna, replacement of the existing Transponder Control Panel with a new CTL-92A Transponder Control Panel and CTL-93T TCAS Control Panel, and replacement of the existing Vertical Speed Indicators (VSI) with new TVI-920D VSI/TA Traffic Displays.

Notes:

* Transponder Control Panel only required for aircraft with two single Transponder Control Panels installed.

Material List

QTY	Part Number	Description	Source/MFGR
1	822-1293-002	Processor, TCAS II (TTR-921)	Rockwell Collins
2	622-9728-125	Display, VSI/TA (TVI-920D)	Rockwell Collins
1	822-2182-113	Panel, TCAS Control (CTL-93T)	Rockwell Collins
1	622-8973-001	Antenna, TCAS Directional	Rockwell Collins
1	622-9210-007 or 622-9210-008	Transponder, Mode-S (TDR-94D)	Rockwell Collins
1	622-6523-205* or 622-6523-005*	Panel, Dual Transponder Control (CTL-92A)	Rockwell Collins
1	DMNI50-4-2 S65-5366-2L	Antenna, L-Band	Dorne & Margolin Sensor Systems
1	EMB120-TCAS-900	Kit, Rockwell Collins TCAS-94 System	B/E Aerospace