



Multi-Engine Turboprop Communiqué

Communiqué ME-TP-0021
July 2020

ATA 34 King Air Weather Radar

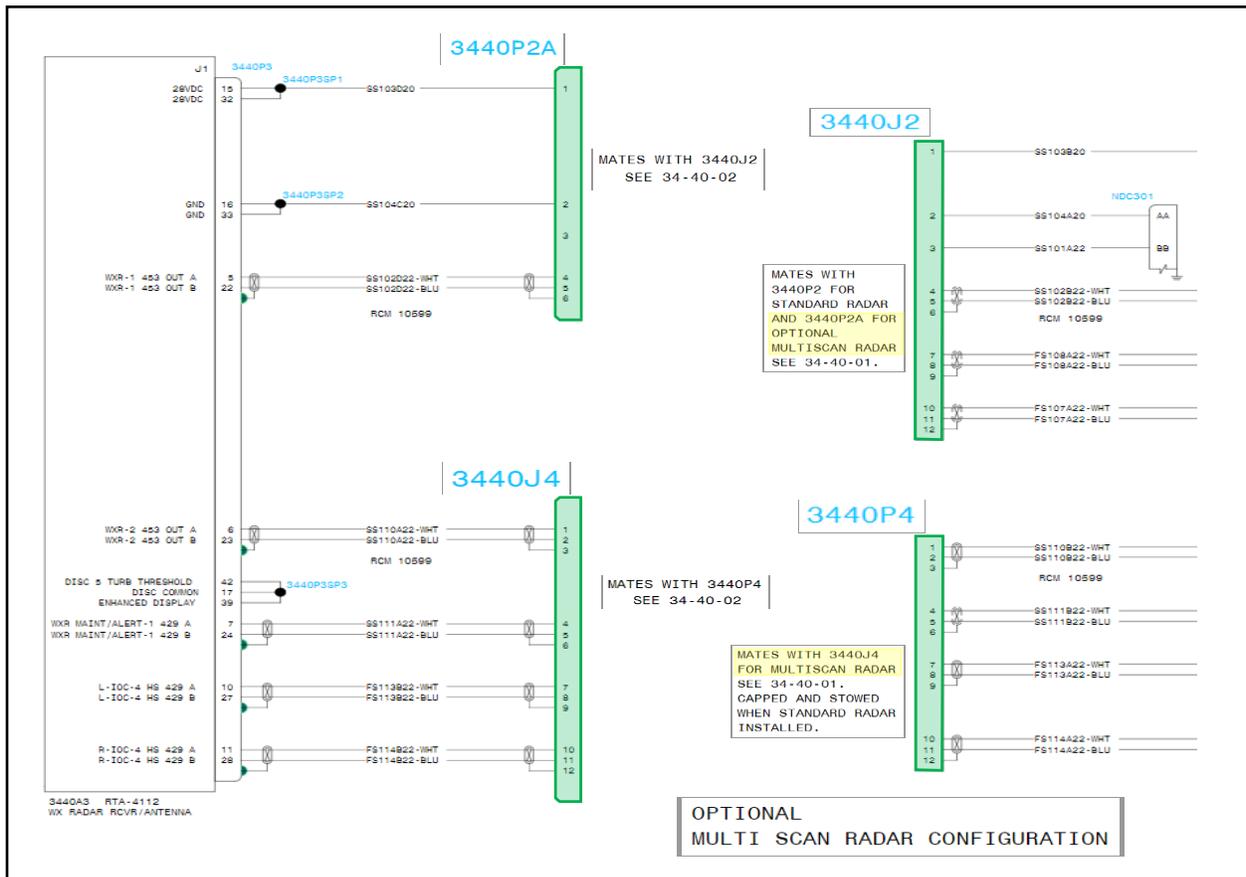
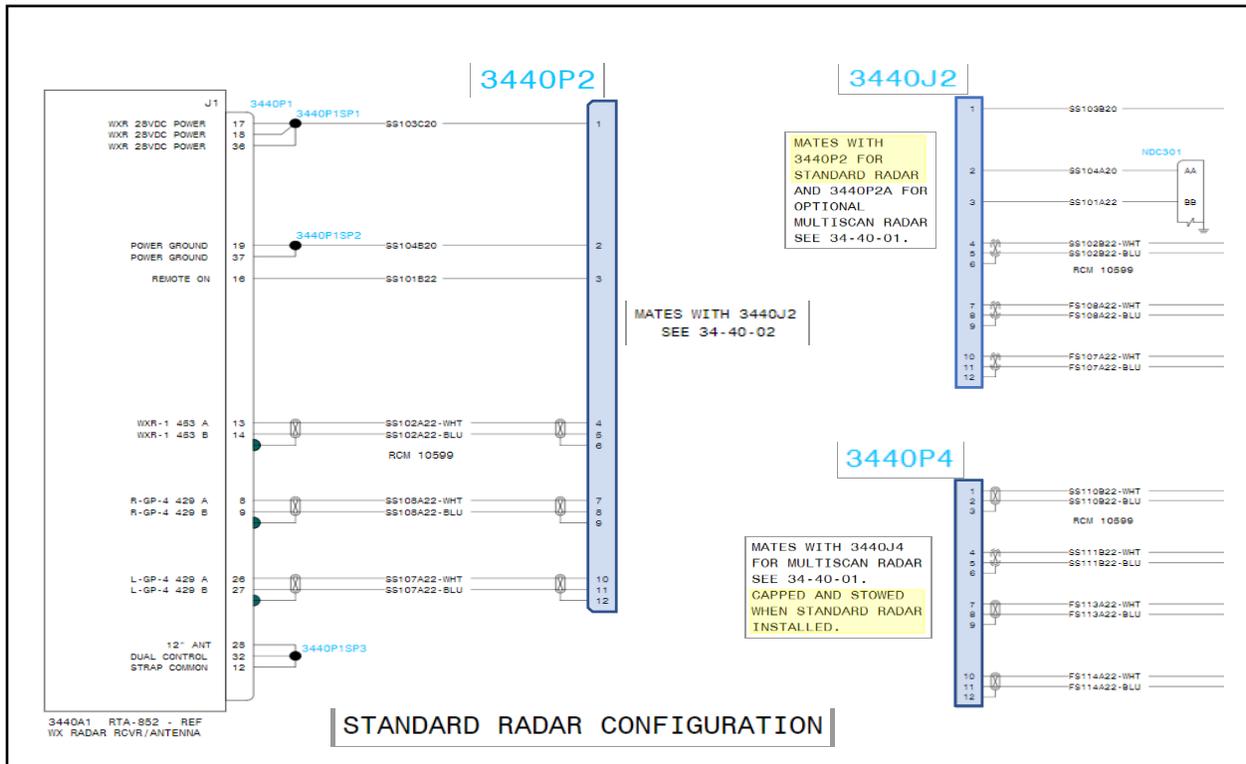
Effectivity: BY-324 and After, FL-1140 and After, and FM-76 and After

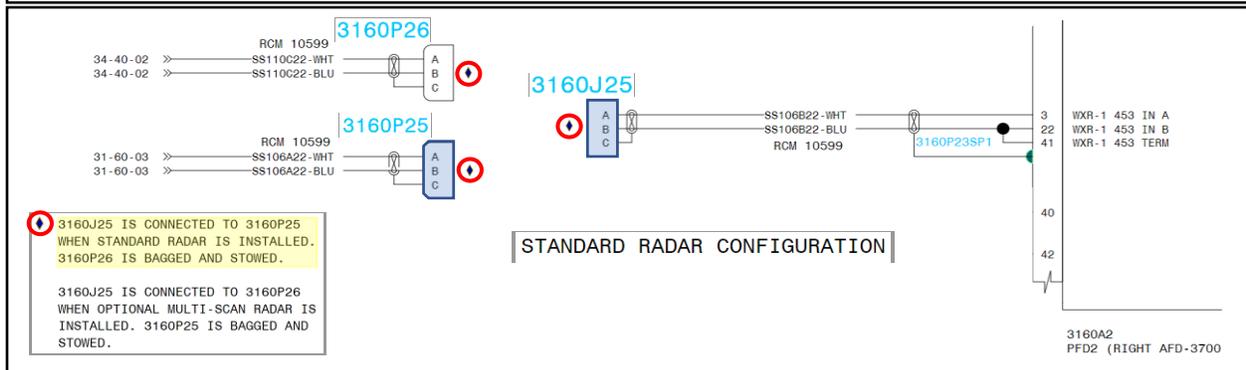
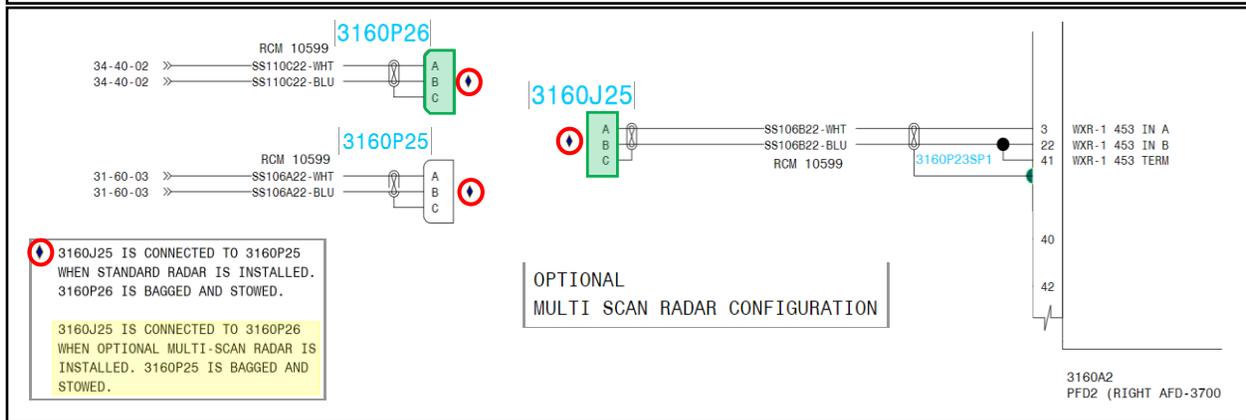
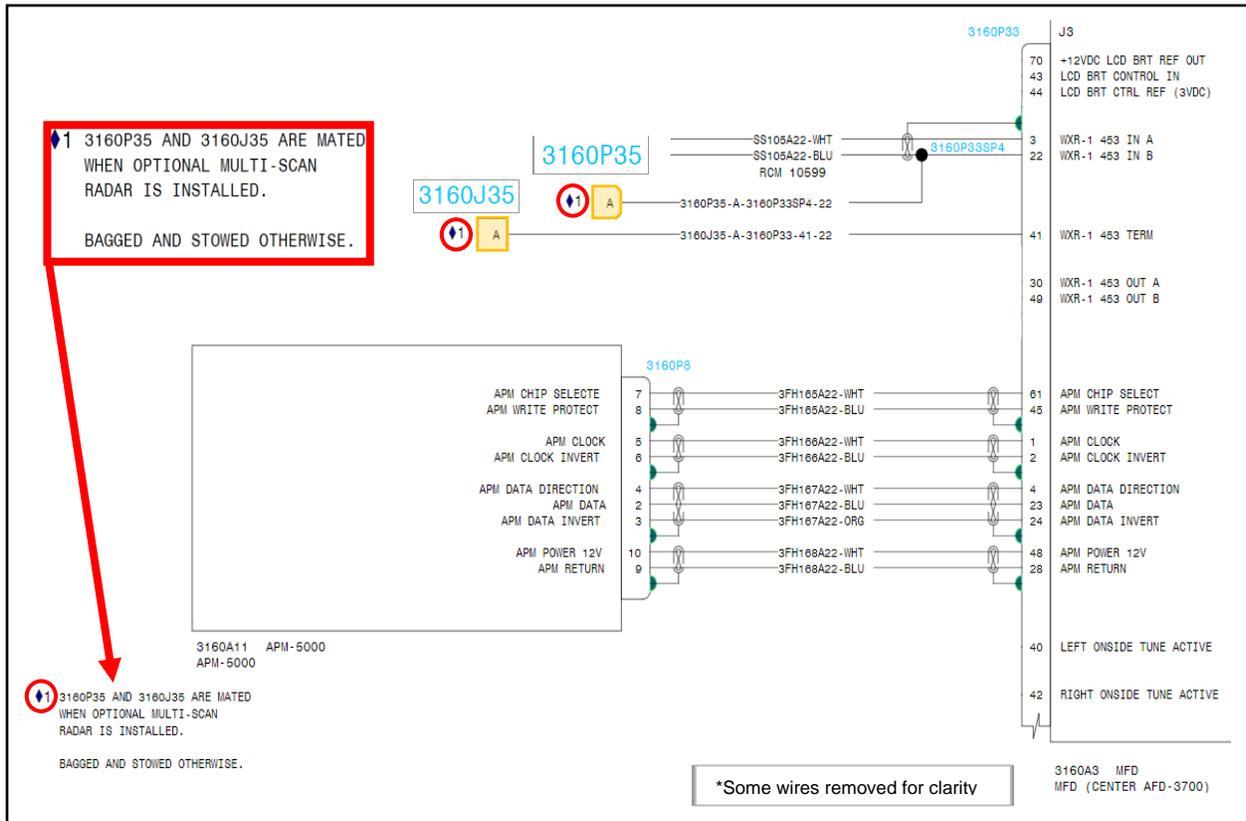
As of 2019, there are two weather radar options available on the King Air 200 series and 300 series: the standard RTA-852 WXR or the optional MultiScan RTA-4112 WXR. The MultiScan Weather Radar combines several radar scans to display an optimized weather picture. While operating, the radar scans automatically and provides additional information such as turbulence detection and ground clutter suppression. Technicians need to be aware of the model and interface differences when troubleshooting or re-installing a weather radar. System data plates are located at the bottom of the base of the radar.

The RTA-582 WXR provides a single output that is daisy-chained to all AFD's. The MultiScan RTA-4112 WXR provides data to each side of the flight deck display system. If the connectors or the wiring for these systems become switched, the system will not function properly. Many of the same receptacles are used throughout the wiring harnesses for both systems. Utilize the notes on the wiring diagrams to verify that the correct connectors are paired. When identifying the connectors and wiring of the system for the weather radar receiver, use 34-40-01 Figure 2 and 34-40-02 Figure 1 of the Wiring Diagram Manual for reference. When identifying the connectors and wiring of the system for the AFD's, use 31-60-02 Figure 5 and 31-60-03 Figure 3 of the Wiring Diagram Manual for reference.

Standard WXR	
<i>Receiver</i>	
3440P2	→ 3440J2
3440P4	→ (CAPPED)
<i>Center AFD</i>	
3160P35	→ (CAPPED)
3160J35	→ (CAPPED)
<i>Right AFD</i>	
3160P26	→ (CAPPED)
3160P25	→ 3160J25

MultiScan WXR		
<i>Receiver</i>		
3440P2A	→	3440J2
3440P4	→	3440J4
<i>Center AFD</i>		
3160P35	→	3160J35
<i>Right AFD</i>		
3160P26	→	3160J25
3160P25	→	(CAPPED)





ATA 34 King Air Weather Radar SB8

Effectivity: BY-324 and After, FL-1140 and After, and FM-76 and After

Communiqué ME-TP-0016 described potential for the RTA-4112 weather radar to lock up and display an error message after 300 flight legs without a manual reset. This is due to non-volatile memory (NVM) capacity management.

Collins has released Service Bulletin RTA-41XX-34-8 Digital Signal Processor (DSP) Communication (COM) Fault Reliability Improvement to prevent faults caused by non-volatile memory re-writes.

Previously, Collins released information document (IDOC) 0168-19 titled Information and Usage of the RTA-41XX NVM Erasure Tool. The IDOC contains procedures and lists equipment to allow the NVM to be cleared in the field prior to it reaching this limit.

To ensure ongoing operation of the RTA-4112, Textron Aviation recommends that operators with this radar either clear the NVM during routine inspections using the procedures in IDOC 0168-19 or incorporate SB RTA-41XX-34-8 so that resets will no longer be necessary.

The RTA-4112 was installed in production as standard equipment beginning at FL-1161 and was a factory option on BY-324 and after. Any Phase 3 B200GT, B200CGT, B300, B300C aircraft could have also had the radar installed post-delivery.