

TEXTRON AVIATION INC.  
AIRCRAFT DIVISION  
WICHITA, KANSAS 67277

**POWER TRANSFER AND CONVERSION UNIT (PTCU)  
INSTALLATION  
ICA Supplement**

**MODEL NO: 700**

**SUPPLEMENT NO: ICA-700-29-00001A**

**SUPPLEMENT DATE: 2/7/2022**

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**REVISIONS**

ICA-700-29-00001	Rev: A	Date: Feb 7/2022
ICA Summary	Pages 1-4	
<b>Manuals Affected</b>	<b>Description</b>	<b>Title</b>
Model 700 Electrical Wiring Interconnect System (EWIS) Manual		
<ul style="list-style-type: none"> <li>This ICA supplement was incorporated in Revision 2 of the Model 700 Electrical Wiring Interconnect System (EWIS) Manual rendering this ICA Supplement Obsolete.</li> </ul>		
Model 700 Airworthiness Limitations Manual		
<ul style="list-style-type: none"> <li>This ICA supplement was incorporated in Revision 2 of the Model 700 Airworthiness Limitations Manual rendering this ICA Supplement Obsolete.</li> </ul>		
Maintenance Manual		
<ul style="list-style-type: none"> <li>This ICA supplement was incorporated in Revision 1 of the Model 700 Maintenance Manual rendering this ICA Supplement Obsolete.</li> </ul>		
Appendix A: Illustrated Parts Catalog		
<ul style="list-style-type: none"> <li>This ICA supplement was incorporated in Revision 1 of the Model 700 Illustrated Parts Catalog rendering this ICA Supplement Appendix Obsolete.</li> </ul>		
Appendix B: Wiring Diagram Manual		
<ul style="list-style-type: none"> <li>This ICA supplement was incorporated in Revision 1 of the Model 700 Wiring Diagram Manual rendering this ICA Supplement Appendix Obsolete.</li> </ul>		

ICA-700-29-00001	Rev: -	Date: Dec 12/2019
ICA Summary	Pages 1-8	
<b>Manuals Affected</b>	<b>Description</b>	<b>Title</b>
Model 700 Electrical Wiring Interconnect System (EWIS) Manual Revision 2  <b>NOTE:</b> Refer to the Model 700 Electrical Wiring Interconnect System Manual Revision 2 and above.	Introduction page 1	List of Revisions
	20-00-00 page	EWIS Standard Practices - General
	20-60-15 page	Wire Harness Installation - Maintenance Practices
	20-70-05 page	EWIS Identification - Maintenance Practices
	20-75-05 page	Electrical Connectors - Maintenance Practices
	20-75-25 page	Sleeving, Heat Shrinkable Tubing, and Conduit - Maintenance Practices
	24-60-00 page	Electrical Load Analysis - Description and Operation
<ul style="list-style-type: none"> <li>Added revision 2 of the Electrical Wiring Interconnect System (EWIS) Manual.</li> <li>Made minor revisions to the Tool and Equipment table, updated figure callouts, added additional connectors and corresponding information.</li> <li>Electrical Load Analysis updates for the PTCU on Table 1, 11, and 27, ATA 24-60-00.</li> </ul>		

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Model 700 Airworthiness Limitations Manual Revision 2  <b>NOTE:</b> Refer to the Model 700 Airworthiness Limitations Manual Revision 2 and above.	Introduction page 1	List of Revisions
	4-10-01 pages 1-28	Airworthiness Limitations Inspection Time Limits
	4-12-00 pages 1-4	Airworthiness Limitations Inspection Documents
	4-12-MD pages 1-2	
	4-12-ME page 1	
	4-12-MF page 1	
	4-12-MG page 1	
	4-12-MH page 1	
	4-12-MK page 1	
	4-12-NF page 1	
<ul style="list-style-type: none"> <li>Added revision 2 of the Airworthiness Limitations Manual.</li> <li>Removed 80 hours from Inspection Document 4-12-MD, 4-12ME, 4-12MF, 4-12-MG, 4-12-MH, and 4-12-MK to align with MSG-3 intervals.</li> <li>Removed SCPTCU from Task Title 24-60-00-710 to cover all airplane serials.</li> <li>Serialized tasks specific to the Power Transfer Unit (PTU) and Power Transfer Conversion Unit (PTCU)</li> <li>Added inspection tasks necessary for the PTCU.</li> </ul>		
Maintenance Manual	5-50-00 pages 1-13	Unscheduled Maintenance Checks
<ul style="list-style-type: none"> <li>Added unscheduled maintenance check to contact Honeywell Aerospace after PTCU Hydraulic Generator Mode Operation.</li> </ul>		
Maintenance Manual	24-40-00 pages 201-203	External Electrical Power - Maintenance Practices
<ul style="list-style-type: none"> <li>Added a Caution for PTCU Operation while using external power.</li> </ul>		
Maintenance Manual	24-60-00 pages 501-513	DC Electrical Load Distribution - Adjustment/Test
<ul style="list-style-type: none"> <li>Revised Chapter 4 Task 24-60-00-710 to remove SCPTCU from title to cover all airplanes.</li> </ul>		
Maintenance Manual	24-60-11 pages 401-405	DC Power Junction Box Printed Circuit Board (PCB) - Removal/Installation
<ul style="list-style-type: none"> <li>Serialized the different names for PCBs NZ115 and NZ215.</li> </ul>		
Maintenance Manual	24-60-11 pages 501-536	DC Power Junction Box Printed Circuit Board (PCB) - Adjustment/Test
<ul style="list-style-type: none"> <li>Added serialization for the HYD CTL SCPTCU (NZ115 Left, NZ215 Right) PCB Check.</li> <li>Added the HYD CONTROL (Airplanes -0017 and -0022 and On) (NZ115 Left, NZ215 Right) PCB Check.</li> </ul>		
Maintenance Manual	29-00-00 pages 1-2	Hydraulic Power - General
<ul style="list-style-type: none"> <li>Updated the Tools and Equipment List.</li> </ul>		
Maintenance Manual	29-00-00 page 201-205	Hydraulic Power - Maintenance Practices

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<ul style="list-style-type: none"> <li>Added a Caution for PTCU Generator Mode Operation.</li> </ul>		
Maintenance Manual	29-10-00 pages 1-12	Main Hydraulic System - Description and Operation
<ul style="list-style-type: none"> <li>Revised pageblock for Power Transfer Unit (PTU) Airplanes -0001 thru -0016 and -0018 thru -0021 and Power Transfer and Conversion Unit (PTCU) Airplanes -0017 and -0022 and On.</li> </ul>		
Maintenance Manual	29-10-00 pages 501-533	Main Hydraulic System - Adjustment/Test
<ul style="list-style-type: none"> <li>Task 29-10-00-712 Power Transfer Unit (PTU) Operational Check serialized Airplanes -0001 thru -0016 and -0018 thru -0021.</li> </ul>		
Maintenance Manual	29-10-00 pages 601-612	Main Hydraulic System - Inspection/Check
<ul style="list-style-type: none"> <li>Removed Chapter 4 task tag 29-10-00-715 from Power Transfer Unit (PTU) CAS Operational Check.</li> <li>Adds Task 29-10-00-717 Power Transfer and Conversion Unit (PTCU) Operational Check (Airplanes -0017 and -0022 and On).</li> <li>Adds Task 29-10-00-963 Power Transfer and Conversion Unit (PTCU) Discard (Airplanes -0017 and -0022 and On).</li> <li>Adds Task 29-10-00-964 Breather Desiccator Discard (Airplanes -0017 and -0022 and On).</li> </ul>		
Maintenance Manual	29-10-55 pages 401-405	Power Transfer Unit (PTU) - Removal/Installation
<ul style="list-style-type: none"> <li>Adds serial to pageblock for Airplanes -0001 thru -0016 and -0018 thru -0021.</li> </ul>		
Maintenance Manual	29-10-56 pages 101-105	Power Transfer and Conversion Unit (PTCU) - Troubleshooting
	29-10-56 pages 401-408	Power Transfer and Conversion Unit (PTCU) - Removal/Installation
	29-10-56 pages 501-522	Power Transfer and Conversion Unit (PTCU) - Adjustment/Test
	29-10-57 pages 401-403	Breather Desiccator - Removal/Installation
<ul style="list-style-type: none"> <li>Adds the Power Transfer and Conversion Unit (PTCU) system.</li> </ul>		
Maintenance Manual	42-10-01 pages 501-566	Garmin G5000 Integrated Avionics System LRU Software Version 37 Configuration - Adjustment/Test
<ul style="list-style-type: none"> <li>Updates Cessna Longitude CMC Viewer SD card data.</li> </ul>		
Appendix A: Illustrated Parts Catalog	Refer to Appendix A, Table 1.	
Appendix B: Wiring Diagram Manual	29-10-01 Figure 02 pages 0-19	Hydraulic System
	29-10-02, Figure 01 pages 0-1	Power Transfer and Conversion Unit

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**1. ICA Obsolescence**

- A. This publication and its contents have been incorporated into the applicable manuals in the revisions noted above. Refer to the most current revision of the manuals listed above for the most up to date Instructions for Continued Airworthiness.

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**APPENDIX A: ILLUSTRATED PARTS CATALOG**

- 2. This ICA supplement was incorporated in Revision 1 of the Model 700 Illustrated Parts Catalog rendering this ICA Supplement Appendix Obsolete.**

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**APPENDIX B: WIRING DIAGRAM MANUAL**

3. This ICA supplement was incorporated in Revision 1 of the Model 700 Wiring Diagram Manual rendering this ICA Supplement Appendix Obsolete.