SERVICE BULLETIN
SUMMARY

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FRANCE
Tel : (33) 5 61 93 33 33
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This summary is for information only and is not approved for modification of the aircraft.

MANDATORY MANDATORY MANDATORY

ATA SYSTEM: 29

TITLE: HYDRAULIC POWER - GREEN AUXILIARY HYDRAULIC POWER (RAM AIR TURBINE) - INTRODUCE NEW SHIMMING PROCEDURE OF RAT DEPLOY SOLENOIDS

****CONF ALL**

MODIFICATIONS

MODIFICATION CLASSIFICATION					
MAJOR	204106D50788				
MINOR	None				

NOTE: As per EASA IR 21, a minor change is one that has no appreciable effect on the mass, balance, structural strength, reliability, operational characteristics affecting the airworthiness of the product. All other changes are major changes.

REASON/DESCRIPTION/OPERATIONAL CONSEQUENCES

An A330 operator experienced that a Ram Air Turbine (RAT) did not deploy when tested. An investigation, conducted by HAMILTON SUNDSTRAND and ARKWIN INDUSTRIES, has found that the RAT did not deploy because there was not sufficient stroke inside one of the actuator deploy solenoids due to insufficient shimming. The actuators will be modified by HAMILTON SUNDSTRAND to make sure they are correctly shimmed with the correct stroke length.

This Service Bulletin is published to advise all operators of A340-500/600 aircraft of the issue of HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7.

HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7 describes the procedure to identify the part number of the RAT actuator and modify the shimming procedure of the RAT actuator.

The accomplishment of this Service Bulletin will contribute to ensure the correct function of the RAT.

GENERAL EVALUATION

EVALUATION TABLE			
COMPLIANCE	MANDATORY (1)	CANCELS INSPECTION SB	NO
POTENTIAL AD	YES	A/C OPERATION AFFECTED	NO

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EVALUATION TABLE			
RELIABILITY AFFECTED	YES	PAX COMFORT AFFECTED	NO
COST SAVING	NO	LROPS AFFECTED	NO
STRUCTURAL LIFE EXTN	NO	VENDOR SB INVOLVED	YES

NOTE (1): Service Bulletin must be accomplished.

MATERIAL PRICE INFORMATION

MATERIAL PRICE INFORMATION TABLE			
MATERIAL SET	**QTY PER A/C**	**PRICE PER A/C (USD)**	**MAIN PARTS**
Equipment BFEZ01	1	See SB	Actuator

EFFECTIVITY

This Service Bulletin is applicable to this (these) operator(s) :

06U 25R 36V 70U 72W AHY AIB CES CHH DLH ETD HFM HFY
I2L IBE QAF QTR SAA TAM THA UAE VIR

CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletins as per effectivity specified in these Service Bulletins:

Service Bulletin No. A340-29-5021

NOTE: A340-29-5021 HYDRAULIC POWER - GREEN AUXILIARY HYDRAULIC POWER (RAM AIR TURBINE) - RAT PUMP HEX SHAFT MODIFICATION applies Modification No. 202538D50554.

REFERENCES / REPERCUSSIONS

TFU	None
OEB	None
AOT	None
SIL	None
LINE MAINTENANCE AFFECTED	No
LIFE LIMIT	None
OTHER	None

NATURE OF THE WORK

AIRCRAFT	NO
EQUIPMENT	YES
HARD	NO
SOFT	NO
OBRM	NO

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MANPOWER

Task 295025-831-848-001: Modification	
TOTAL MANHOURS	14.00
ELAPSED TIME (HOURS)	14.00

APPENDICES

None

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**CONF ALL

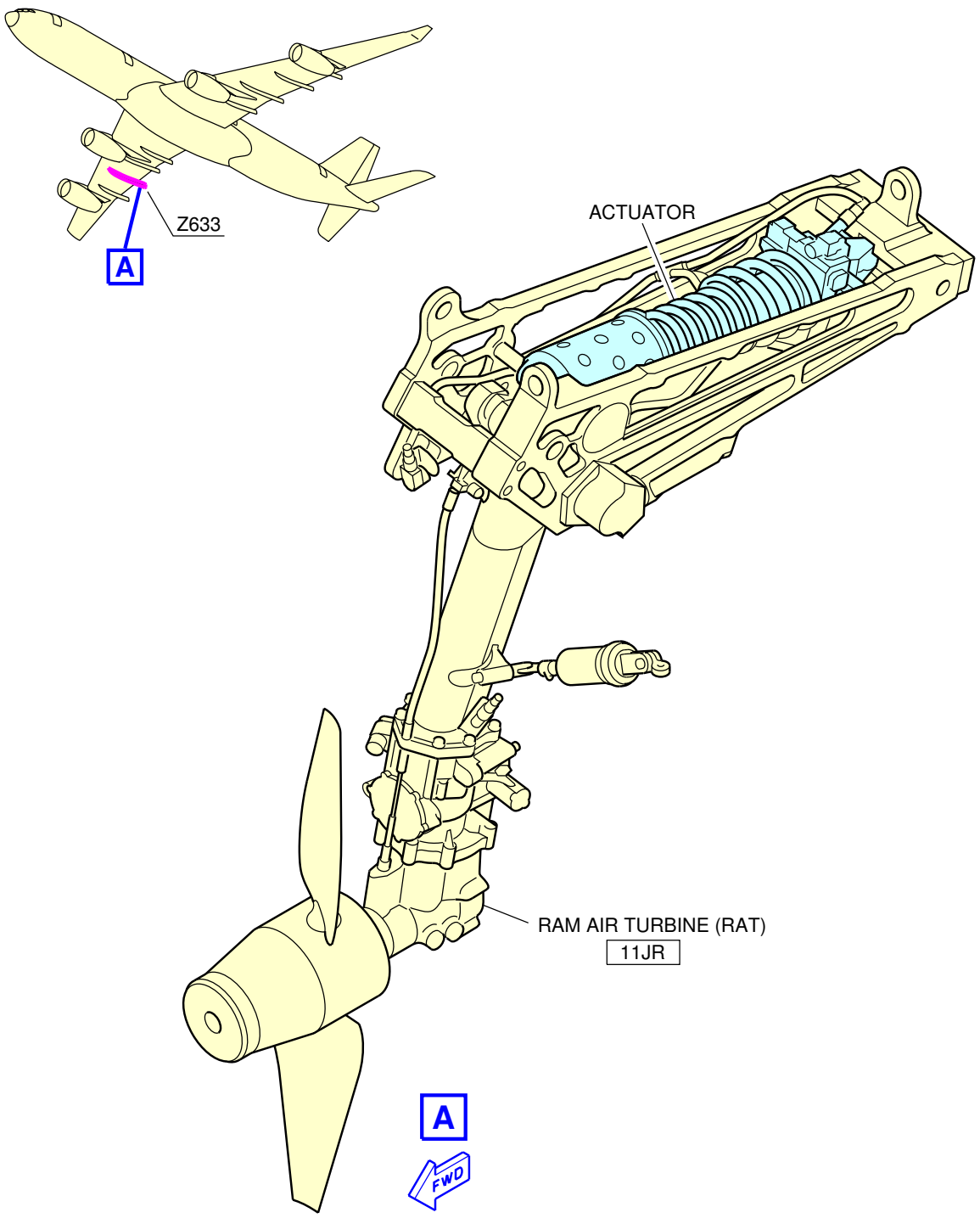


Figure A-GSAAA - Sheet 01

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MANDATORY MANDATORY MANDATORY

ATA SYSTEM: 29

TITLE: HYDRAULIC POWER - GREEN AUXILIARY HYDRAULIC POWER (RAM AIR TURBINE) - INTRODUCE NEW SHIMMING PROCEDURE OF RAT DEPLOY SOLENOIDS

MODIFICATION No.: 204106D50788

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1. PLANNING INFORMATION

****CONF ALL**

A. EFFECTIVITY

(1) Models

340-541 340-542 340-642

(2) Effectivity by MSN

0371 0376 0383 0391 0394 0410 0416-0417 0426 0431 0436 0440 0445 0449 0453 0457 0460 0464 0468 0471 0475 0478 0482 0485 0488 0492 0495 0499 0514 0517 0520 0523 0531 0534 0537 0540 0543 0547 0557 0560 0563 0566 0569 0572 0575 0577 0580 0583 0586 0601 0604 0606 0608 0611 0615 0617 0619 0622 0624 0626 0628 0630 0639 0672 0677 0681 0685 0689 0694 0698 0702 0706 0710 0715 0719 0723 0727 0736 0740 0744 0748 0753 0757 0761-0768 0771 0775 0779 0783 0787 0790 0794 0798 0804 0812 0829 0837 0846 0848 0870 0886 0894 0897 0902 0910 0912 0917 0924 0929 0933 0953 0960 0972 0981 0987 0993 1005 1017 1030 1040 1079 1091 1102 1122

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(3) Effectivity by Operator

The Operator/MSN relationship is provided for information only and is correct at the time of issue in accordance with the information available to AIRBUS. Any future changes resulting from transfer of an aircraft from one operator to another will not be reflected in this list unless the Service Bulletin is revised for another reason.

OPERATOR	MSN
06U	1091 1102
25R	0924
36V	0391 0416
70U	0902
72W	0917
AHY	0779 0886 0894
AIB	0371 0376 0478 0492 0499 0560 0563
CES	0468 0488 0514 0577 0586
CHH	0436 0453
DLH	0482 0517 0523 0537 0540 0543 0566 0569 0580 0583 0762 0763 0767 0771 0790 0794 0812 0846 0848 0897 0972 0981 0987 1005
ETD	0748 0757 0761 0783 0829 0837 0870 0929 0933 1030 1040
HFM	0383
HFY	0910 0912
I2L	0475
IBE	0431 0440 0460 0601 0604 0606 0617 0619 0672 0702 0727 0744 0960 0993 1017 1079 1122
QAF	0495
QTR	0715 0740 0766 0798
SAA	0410 0417 0426 0531 0534 0547 0557 0626 0630
TAM	0445 0464
THA	0624 0628 0677 0681 0689 0698 0710 0719 0775 0953
UAE	0394 0457 0471 0485 0520 0572 0608 0611 0685 0694
VIR	0449 0575 0615 0622 0639 0706 0723 0736 0753 0764 0765 0768 0787 0804

(4) Configuration by MSN

MSN	CONFIGURATION
0371 0376 0383 0391 0394 0410 0416 0417 0426 0431 0436 0440 0445 0449 0453 0457 0460 0464 0468 0471 0475 0478 0482 0485 0488 0492 0495 0499 0514 0517 0520 0523 0531 0534 0537 0540 0543 0547 0557 0560 0563 0566 0569 0572 0575 0577 0580 0583 0586 0601 0604 0606 0608 0611 0615 0617 0619 0622 0624 0626 0628 0630 0639 0672 0677 0681 0685 0689 0694 0698 0702 0706 0710 0715 0719 0723 0727 0736 0740 0744 0748 0753 0757 0761 0762 0763 0764 0765 0766 0767 0768 0771 0775 0779 0783 0787 0790 0794 0798 0804 0812 0829 0837 0846 0848 0870 0886 0894 0897 0902 0910 0912 0917 0924 0929 0933 0953 0960 0972 0981 0987 0993 1005 1017 1030 1040 1079 1091 1102 1122	001

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(5) Configuration definition

**CONF 001
Config. 001 is valid for all the aircraft given in the effectivity of this Service Bulletin as a standard configuration.

(6) Material Effectivity

MATERIAL	QTY PER A/C	SEE NOTES
Equipment BFEZ01	1	
Reidentified part set REIDD01	1	
Consumable CMLD01	As required	

B. CONCURRENT REQUIREMENTS

Accomplishment of this Service Bulletin requires the prior or simultaneous accomplishment of the following Service Bulletins as per effectivity specified in these Service Bulletins:

Service Bulletin No. A340-29-5021

NOTE: A340-29-5021 HYDRAULIC POWER - GREEN AUXILIARY HYDRAULIC POWER (RAM AIR TURBINE) - RAT PUMP HEX SHAFT MODIFICATION applies Modification No. 202538D50554.

C. REASON

(1) History

An A330 operator experienced that a Ram Air Turbine (RAT) did not deploy when tested. An investigation, conducted by HAMILTON SUNDSTRAND and ARKWIN INDUSTRIES, has found that the RAT did not deploy because there was not sufficient stroke inside one of the actuator deploy solenoids due to insufficient shimming. The actuators will be modified by HAMILTON SUNDSTRAND to make sure they are correctly shimmed with the correct stroke length.

(2) Objective/Action

This Service Bulletin is published to advise all operators of A340-500/600 aircraft of the issue of HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7.

HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7 describes the procedure to identify the part number of the RAT actuator and modify the shimming procedure of the RAT actuator.

(3) Advantages

The accomplishment of this Service Bulletin will contribute to ensure the correct function of the RAT.

(4) Operational/Maintenance Consequences

None

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D. DESCRIPTION

To accomplish this Service Bulletin it is necessary to :

Task 295025-831-848-001: Modification

(1) Identify the Part and Serial Number of the RAT Actuator

(2) Modify the RAT Actuator

E. COMPLIANCE

(1) Classification

MANDATORY: Service Bulletin must be accomplished.

(2) Accomplishment Timescale

This Service Bulletin has been classified Mandatory. It is expected that an Airworthiness Directive (AD) published by the European Aviation Safety Agency (EASA) will be issued to confirm this classification. It is anticipated that the AD will confirm the threshold of 36 months given but reference should be made to the AD for confirmation of the mandated accomplishment timescale.

F. APPROVAL

The technical content of this document is approved under the authority of Design Organisation Approval No. EASA.21J.031.

If an aircraft listed in the effectivity has a modification or repair embodied that is not of AIRBUS origin, and which affects the content of this Service Bulletin, the operator is responsible for obtaining approval by its airworthiness authority for any adaptation necessary before incorporation of the Service Bulletin.

G. MANPOWER

The manpower estimates given in this Service Bulletin are based on the direct labor cost to do the work. These estimates assume that the work will be done by experienced personnel, and may need to be revised upwards to suit operator's circumstances. The estimates do not include the time to prepare, plan or inspect the work. Manufacture and procurement of parts and tools, drying times for paints, sealants, etc., and general administration work are also not included.

Task 295025-831-848-001: Modification	
Get Access	1.00
On Aircraft	
Identify the Part and Serial Number of the RAT Actuator	1.00
Modify the RAT Actuator	9.00
Tests	2.00
Close-Up	1.00
TOTAL MANHOURS	14.00

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Task 295025-831-848-001: Modification	
ELAPSED TIME (HOURS)	14.00

H. WEIGHT AND BALANCE

Not Changed

I. ELECTRICAL LOAD DATA

Not Changed

J. REFERENCES

Aircraft Maintenance Manual (AMM)	06-20-00 12-34-34 20-16-00 29-24-00 29-24-56
Consumable Material List (CML)	
ATA Common Support Data Dictionary (CSDD), Chapter 2	
Elec. Std. Practices Manual (ESPM)	20-55-00
Vendor Service Bulletin (VSB)	HAMILTON SUNDSTRAND ERPS33T-29-7

K. PUBLICATION AFFECTED

Aircraft Maintenance Manual (AMM)	29-24-56
Illustrated Parts Catalog (IPC)	29-24-05 29-24-52 29-24-56

L. INTERCHANGEABILITY/MIXABILITY

DESCRIPTION	OLD PART N☒	NEW PART N☒	INT	MIXABILITY	SEE NOTES
Ram Air Turbine	772722H	772722M	01	Not Applicable	
Ram Air Turbine	772722J	772722M	01	Not Applicable	
Ram Air Turbine	772722L	772722M	01	Not Applicable	

NOTE: For definitions of interchangeability codes in column INT., refer to ATA Common Support Data Dictionary (CSDD), Chapter 2.

M. SPARES

Actuator	5912536
Actuator	5912958
Actuator	5915769
Ram Air Turbine	772722H
Ram Air Turbine	772722J
Ram Air Turbine	772722L

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2. MATERIAL INFORMATION

****CONF ALL**

A. MATERIAL - PRICE AND AVAILABILITY

(1) Procurement Addresses

Modification of removed equipment should be negotiated directly with HAMILTON SUNDSTRAND as per instructions given in Vendor Service Bulletin No. ERPS33T-29-7.

This Service Bulletin is the subject of an AIRBUS monitored retrofit campaign.

(2) Price and Availability

No AIRBUS kit will be provided.

Refer to the Vendor Service Bulletin No. ERPS33T-29-7 for the equipment modification sales terms.

B. INDUSTRY SUPPORT INFORMATION

For the organisation of this retrofit, you are kindly requested to contact AIRBUS retrofit management department.

AIRBUS
CUSTOMER SERVICES DIRECTORATE
1 Rond Point Maurice Bellonte
31707 BLAGNAC CEDEX
France

E-mail : monitored.retrofit@airbus.com
Tel : (33) 5 67 19 06 22
Fax : (33) 5 61 93 27 45

Refer to the HAMILTON SUNDSTRAND Vendor Service Bulletin No. ERPS33T-29-7 for the industry support terms.

C. LIST OF COMPONENTS

No Kit

D. LIST OF MATERIALS - OPERATOR SUPPLIED

(1) Consumable Materials

Consumable CMLD01

ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Clear Polyurethane Coating	04MDA3	As required	
	Non Aqueous Cleaner-General	08BAA9	As required	
	Textile-Lint Free Cotton	14SBA1	As required	

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(2) Components

None

(3) Equipment

Equipment BFEZ01

ITEM	NEW PART N☒	QTY (UM)	KEYWORD	ITEM	OLD PART N☒	INT	SEE NOTES
1	5917130-1	1	ACTUATOR	(1)	5915769		(1)
1	5917130-2	1	ACTUATOR	(1)	5912536		(1)
				(1)	5915769		

NOTE (1): The above list of components is not an AIRBUS Kit, the required parts shall be ordered as necessary through the given channel.

E. PARTS TO BE RE-IDENTIFIED BY OPERATOR

Parts are re-identified in accordance with the HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7.

Reidentified part set REIDD01

ITEM	NEW PART N☒	KEYWORD	ITEM	OLD PART N☒	SEE NOTES
	772722M	RAT		772722H	
				772722J	
				772722L	

F. TOOLING

None

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3. ACCOMPLISHMENT INSTRUCTIONS

Task 295025-831-848-001 - Modification

WARNING: MAKE SURE THAT YOU OBEY ALL THE WARNINGS AND ALL THE CAUTIONS INCLUDED IN THE REFERENCED PROCEDURES

WARNING: OBEY THE HYDRAULIC SAFETY PROCEDURES. WORK ON THE HYDRAULIC SYSTEMS CAN BE DANGEROUS.

WARNING: MAKE SURE THAT THE TRAVEL RANGES OF THE FLIGHT CONTROLS ARE CLEAR. MOVEMENT OF FLIGHT CONTROLS CAN CAUSE INJURY TO PERSONS AND/OR DAMAGE.

WARNING: MAKE SURE THAT THE SAFETY DEVICES AND THE WARNING NOTICES ARE IN POSITION BEFORE YOU START A TASK ON OR NEAR:

- THE FLIGHT CONTROLS

- THE FLIGHT CONTROL SURFACES

- THE LANDING GEAR AND THE RELATED DOORS

- COMPONENTS THAT MOVE.

MOVEMENT OF COMPONENTS CAN KILL OR INJURE PERSONS.

WARNING: SUPPORT THE UNIT/ASSEMBLY CAREFULLY TO PREVENT INJURY TO PERSONS AND DAMAGE. THE UNIT/ASSEMBLY IS HEAVY.

CAUTION: DO NOT LIFT THE RAT BY THE TURBINE BLADES. YOU CAN CAUSE DAMAGE TO THE TURBINE BLADES IF YOU USE THEM TO LIFT THE RAT.

CAUTION: ALWAYS OBEY THE PRECAUTIONS THAT FOLLOW TO KEEP ELECTRICAL WIRING IN A SATISFACTORY CONDITION (ELECTRICALLY AND MECHANICALLY SERVICEABLE).

WHEN YOU DO MAINTENANCE WORK, REPAIRS OR MODIFICATIONS, ALWAYS KEEP ELECTRICAL WIRING, COMPONENTS AND THE WORK AREA AS CLEAN AS POSSIBLE. TO DO THIS :

- PUT PROTECTION, SUCH AS PLASTIC SHEETING, CLOTHS, ETC; AS NECESSARY ON ELECTRICAL WIRING AND COMPONENTS.

- REGULARLY REMOVE ALL SHAVINGS, UNWANTED MATERIAL AND OTHER CONTAMINATION.

THESE PRECAUTIONS WILL DECREASE THE RISK OF CONTAMINATION AND DAMAGE TO THE ELECTRICAL WIRING INSTALLATION.

IF THERE IS CONTAMINATION, REFER TO ESPM 20-55-00.

NOTE: The accomplishment instructions of this Service Bulletin include procedures given in other documents or in other sections of the Service Bulletin. When the words

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'refer to' are used and the operator has a procedure accepted by the local authority he belongs to, the accepted alternative procedure can be used. When the words 'in accordance with' are used the given procedure must be used.

NOTE: The access and close-up instructions, not comprising return to service tests, in this Service Bulletin do not constitute or affect the technical intent of the Service Bulletin. Operators can therefore, as deemed necessary, omit or add access and/or close-up steps to add flexibility to their maintenance operations as long as the technical intent of the Service Bulletin is met within the set parameters.

NOTE: Manual titles given in the accomplishment instructions are referred to by acronyms. Refer to paragraph 1.J., References, for the definition of acronyms.

NOTE: This Service Bulletin is classified mandatory or expected to be classified mandatory by an Airworthiness Directive (AD). The paragraphs 3.C. and 3.D. in these accomplishment instructions are Required for Compliance (RC) and must be done to comply with the AD. Other paragraphs are recommended and may be deviated from, done as part of other actions or done with accepted methods different from those given in the Service Bulletin, as long as the RC paragraphs can be done and the aircraft can be put back into a serviceable condition.

Task Associated Data

Zone	
633	
Manpower	
TOTAL MANHOURS	14.00
ELAPSED TIME (HOURS)	14.00

A. GENERAL

(1) Subtask 295025-910-201-001 - Standard Practices

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	06-20-00, Page Block 001 Task 20-16-00-912-801
Consumable Material List (CML)	

(a) For the specification of materials (Mat. No.) given in this Service Bulletin, refer to the Consumable Materials List (CML).

(b) For the identification of zones, refer to AMM 06-20-00, Page Block 001.

(c) For circuit breaker safety precautions, refer to AMM Task 20-16-00-912-801.

(d) Put blanking caps on the disconnected electrical connectors and hydraulic connections.

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(2) Subtask 295025-839-201-001 - Administrative

Manpower Resources	
Skills	NON SPECIFIC

Write in the applicable aircraft records that you have done all the work given in this Service Bulletin.

B. PREPARATION

(1) Subtask 295025-941-201-001 - Job Set-up

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 12-34-34-860-802 Task 29-24-00-869-801

NOTE: The items given in this note shall be considered as the basic Aircraft configuration before you start a maintenance task:

- Aircraft on the ground resting on landing gear (the ground safety locks and the wheel chocks are in position on the landing gear)
- Engine shut down, thrust reversers closed and locked
- Aircraft in clean configuration
- Parking brake applied
- Aircraft electrical network de-energized
- Hydraulic systems depressurized
- Access to the cockpit and cabin is available
- All circuit breakers are in closed position
- All controls in NORM, AUTO or OFF position.

(a) Make sure that the aircraft is electrically grounded, refer to AMM Task 12-34-34-860-802.

(b) Extend the RAT, refer to AMM Task 29-24-00-869-801.

(c) Open, safety/lock and tag this (these) circuit breaker(s):

PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
721VU	HSMU B + PART G	6JG	U10	
722VU	HSMU Y + PART G	7JG	X46	
742VU	RAT STOW CTL	1JR	D77	

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PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
742VU	HYD RAT EXT SOL 2	5JR	D76	
742VU	RAT MAN ON	2JR	K74	

(d) Put the warning notices on panel 114VU to tell persons not to operate the flap/slat controls.

(e) Put the warning notices in position on the Yellow ground service-panel to tell persons not to retract the RAT.

(f) Put an access platform in position below the flap track fairing No. 4, RH.

C. PROCEDURE

(1) Subtask 295025-831-201-001 - Identify the Part and Serial Number of the RAT Actuator

Manpower Resources	
Manhours	1.00
Minimum number of person	1
Subtask elapsed time	1.00
Skills	AIRFRAME

Material necessary to do the job

Consumable CMLD01				
ITEM	DESCRIPTION	REFERENCE TO CML MAT. No.	QTY PER A/C	SEE NOTES
	Clear Polyurethane Coating	04MDA3	As required	
	Non Aqueous Cleaner-General	08BAA9	As required	
	Textile-Lint Free Cotton	14SBA1	As required	

References	
Vendor Service Bulletin (VSB)	HAMILTON SUNDSTRAND ERPS33T-29-7
Fig. A-GBAAA Removal / Installation of the RAT Actuator	Sheet 01
Fig. A-GCAAA Identification of the RAT Actuator	Sheet 01 Sheet 02

(a) Identify the RAT actuator in accordance with HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7.

Refer to Fig. A-GCAAA Sheet 01 and Fig. A-GCAAA Sheet 02.

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1 If the installed actuator is from the supplier ARKWIN, as shown on Fig. A-GCAAA Sheet 02:

a Identify the part number and the serial number of the installed actuator in accordance with HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7.

<1> If the installed actuator has the part number / serial number as affected in the HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7:

<a> Continue with SUBTASK 295025-831-202 001 Modify the RAT Actuator .

<2> If the installed actuator has the part number / serial number listed with modification already incorporated but not re-identified in accordance with the HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7:

<a> Re-identify the actuator and the RAT in accordance with HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7, clean the surface of the actuator with:

Non Aqueous Cleaner-General	08BAA9	As required
	with	
Textile-Lint Free Cotton	14SBA1	As required

<b> Protect the identification plate with:

Clear Polyurethane Coating	04MDA3	As required

<c> No further action is required in accordance with this Service Bulletin.

<3> If the actuator name plate is missing or the serial number is not listed:

<a> Continue with SUBTASK 295025-831-202 001 Modify the RAT Actuator .

(2) Subtask 295025-831-202-001 - Modify the RAT Actuator

Work Zones and Access Panels		
	Zone	Access/Work location
	633	

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Manpower Resources	
Manhours	9.00
Minimum number of person	1
Subtask elapsed time	9.00
Skills	AIRFRAME

Material necessary to do the job

Equipment BFEZ01				
ITEM	NEW PART N☒	QTY (UM)	KEYWORD	SEE NOTES
1	5917130-1	1	ACTUATOR	(1)
1	5917130-2	1	ACTUATOR	(1)

NOTE (1): The above list of components is not an AIRBUS Kit, the required parts shall be ordered as necessary through the given channel.

Reidentified part set REIDD01					
ITEM	NEW PART N☒	KEYWORD	ITEM	OLD PART N☒	SEE NOTES
	772722M	RAT		772722H	
				772722J	
				772722L	

References	
Aircraft Maintenance Manual (AMM)	Task 29-24-56-000-801 Task 29-24-56-400-801
Vendor Service Bulletin (VSB)	HAMILTON SUNDSTRAND ERPS33T-29-7
Fig. A-GBAAA Removal / Installation of the RAT Actuator	Sheet 01

(a) Modify the actuator of the RAT.

1 Remove the actuator from the RAT, refer to AMM Task 29-24-56-000-801.

a As shown in Fig. A-GBAAA Sheet 01, remove:

1	Actuator	5912536	Item (1)	Retain

or

1	Actuator	5915769	Item (1)	Retain

2 For the accomplishment of HAMILTON SUNDSTRAND Service Bulletin No. ERPS33T-29-7, send the removed actuator, Item (1), to HAMILTON SUNDSTRAND.

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3 Install the modified actuator on the RAT, refer to AMM Task 29-24-56-400-801.

a As shown in Fig. A-GBAAA Sheet 01, install:

1	Actuator	5917130-1	Item 1
	or		
1	Actuator	5917130-2	Item 1

(b) After modification:

1	Ram Air Turbine	772722H
	becomes:	
1	Ram Air Turbine	772722M
	or	
1	Ram Air Turbine	772722J
	becomes:	
1	Ram Air Turbine	772722M
	or	
1	Ram Air Turbine	772722L
	becomes:	
1	Ram Air Turbine	772722M

D. TEST

(1) Subtask 295025-710-201-001 - Test

Manpower Resources	
Skills	NON SPECIFIC

References	
Aircraft Maintenance Manual (AMM)	Task 29-24-00-710-803 Task 29-24-00-710-806 Task 29-24-00-820-803 Task 29-24-56-400-801

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(a) Preparation

1 Remove the safety clip(s) and/or tag(s) and close/unlock this (these) circuit breakers:

PANEL	DESIGNATION	FIN	LOCATION	SEE NOTES
721VU	HSMU B + PART G	6JG	U10	
722VU	HSMU Y + PART G	7JG	X46	
742VU	RAT STOW CTL	1JR	D77	
742VU	HYD RAT EXT SOL 2	5JR	D76	
742VU	RAT MAN ON	2JR	K74	

2 Do the preparation procedure for the test of the actuator, refer to AMM Task 29-24-56-400-801.

(b) Procedure

1 Do the adjustment of the RAT, refer to AMM Task 29-24-00-820-803.

2 Do the operational test of the RAT extension and retraction, refer to AMM Task 29-24-00-710-803.

3 Examine the hydraulic connections of the RAT for leaks.

NOTE: Leaks are not permitted.

4 Do the operational test of the automatic RAT deployment, refer to AMM Task 29-24-00-710-806.

E. CLOSE-UP

(1) Subtask 295025-942-201-001 - Close-up

Manpower Resources	
Skills	NON SPECIFIC

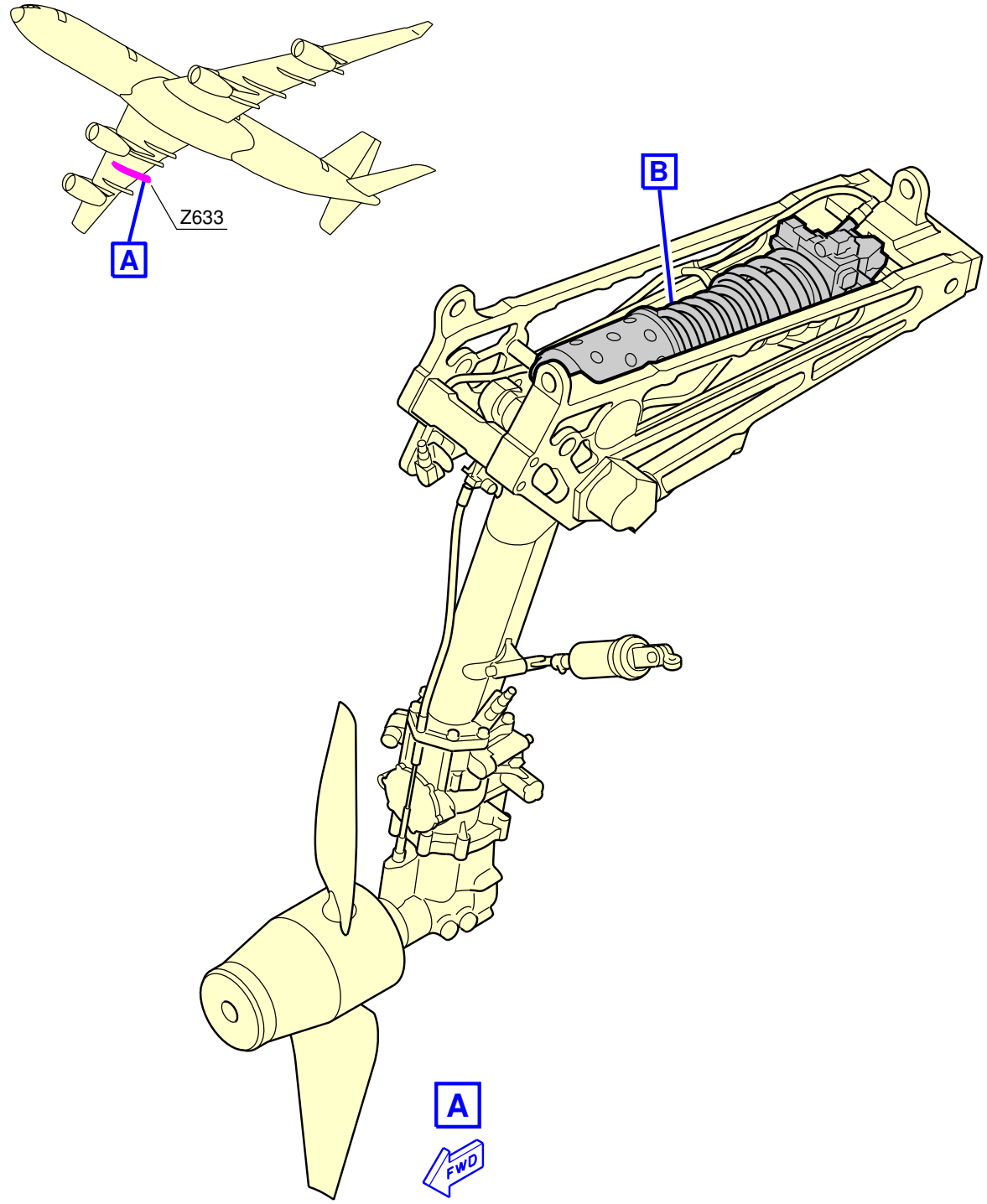
(a) Make sure that the work areas are clean and clear of tools and other items of equipment.

(b) Remove the warning notices.

(c) Remove the access platform(s).

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**CONF ALL

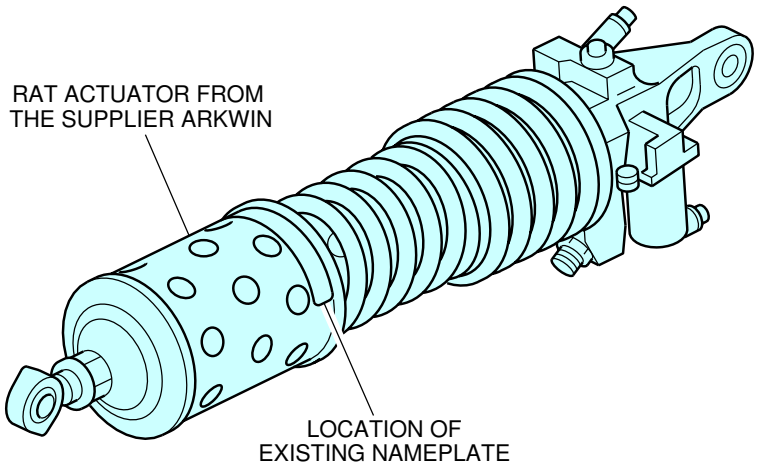


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Figure A-GCAAA - Sheet 01
Identification of the RAT Actuator

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**CONF ALL



F_SB_295025_6_CAAA_02_01

Figure A-GCAAA - Sheet 02
Identification of the RAT Actuator

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**CONF ALL

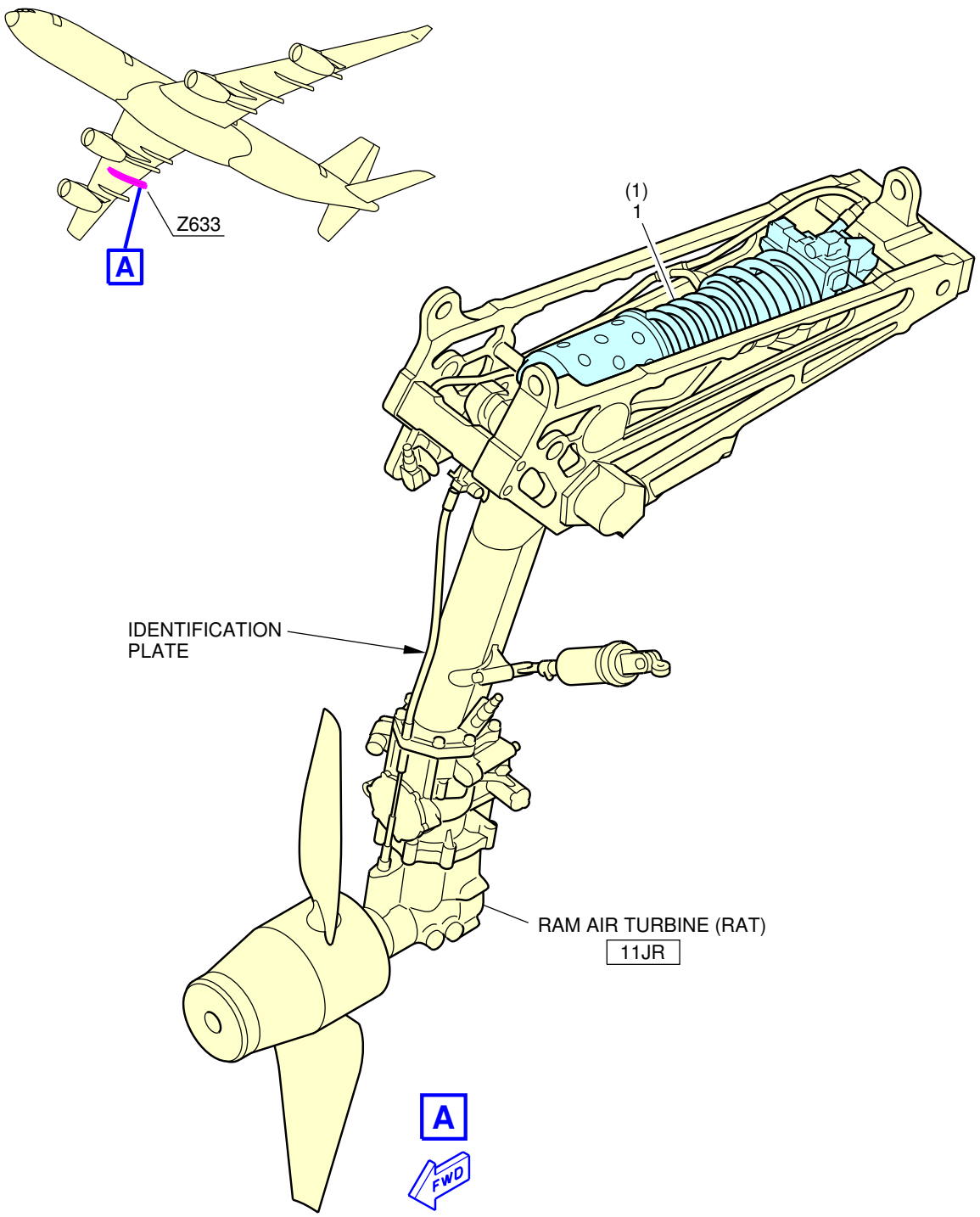


Figure A-GBAAA - Sheet 01
Removal / Installation of the RAT Actuator

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SERVICE BULLETIN
REPORTING SHEET

TITLE: HYDRAULIC POWER - GREEN AUXILIARY HYDRAULIC POWER (RAM AIR TURBINE) - INTRODUCE NEW SHIMMING PROCEDURE OF RAT DEPLOY SOLENOIDS

MODIFICATION No.: 204106D50788

Please complete the appropriate item (A or B):
A - SB WILL BE embodied YES/NO (if NO please comment)
If YES, aircraft concerned (as per SB effectivity by default) and planned dates (month/year) of embodiment:

B - SB HAS BEEN embodied on aircraft:

Operator comments:

From Airline:
Name/Title:
Signature: Date:

If operational documentation is affected (see Paragraph 1.K of this SB): If information is needed prior to next normal revision or prior to SB embodiment, please indicate required service(s):
Either: Modification Operational Impact (MOI), if available YES/NO
Or : Intermediate revision YES/NO

Important Information: This SB will only be incorporated in your maintenance and operational documentation if this sheet is returned to Airbus and signed by a duly authorised representative. With the next feasible revision, this will result in

- Updating of maintenance documentation to show pre and post SB data.
- Updating of maintenance and operational documentation to show post SB data after embodiment.

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X	Reason	X	List of Materials Operator Supplied	X	Mod/Inspection
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X	References	X	Re-identification	X	Close-Up
X	Publication	X	Tooling	X	Illustrations

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