1. Approving Civil Aviation Authority/ Country: FAA/UNITED STATES FAA/UNITED STATES FAA Form 81 4. Organization Name and Address: IHI Corporation 229, Tonogaya, Mizuho-ma Tokyo 190-1297, Japan , F./ 6. Item: 7. Description: 8. Part Number: 12.Remarks: Inspected and Repaired in accordance with CMM 78 Final Test: Accepted IHI SB 17300-73-008 Rev. 0 (IAE SB V2500-ENG-73-0247 Rev. 0) were incorpo No applicable ADs at this time Details are on file under the customer's work orde 13a. Certifies the items identified above were manufactured in conformity to: Approved design data and are in a condition for safe operation.	AUTHORIZED RELEASE CERTIFICATE FAA Form 8130-3.AIRWORTHINESS APPROVAL TAG INITED STATES IHI Corporation 2.29, Tonogaya, Mizuho-machi, Nishitama-gun, Tokyo 190-1297, Japan , FAA REPAIR STATION No. GA4Y199M 7. Description: 8. Part Number: 9. Quantity: 17300G12 1 EA Image: Puell Diverter & Accepted IHI SB 17300-73-008 Rev. 0 (IAE SB V2500-ENG-73-0240 Rev. 0) and IHI SB 17300-73-009 Rev. 0 (IAE SB V2500-ENG-73-0240 Rev. 0) were incorporated. No applicable ADs at this time Details are on file under the customer's work order number referenced in Block 5. The Items identified above were manufactured in conformity to: 14a. 214 CFR 43.9 Return to Service and described in Block 12 was a Federal Regulations, part 43 and Federal Regulations, part 43 and Federal Regulations, part 43 and 44 and 45 a	ASE CERTIF HINESS APPROVAL 1 gun, ATION No. GA4Y199N 9. Quantity: 1 EA 1 EA Dated Apr. 30/2023 Dated IHI SB 17300-73. cenced in Block 5. renced in Block 5. Certifies that unland described in Federal Regulatio	RTIFICATE ROVAL TAG 10. Serial Number: 7683 72023 7300-73-009 Rev. 0 43.9 Return to Service sthat unless otherwise specified scribed in Block 12 was accomplis I Regulations, part 43 and in respe	3. Form Trac MA/FA 5. Work Orde Ther regulat in Block 12. thed in accorded to that wo cut to that wo	CERTIFICATE APPROVAL TAG S. Work Order/Contract/Invoice Number: 4324649-6122 P/O No. R419655 ity: 10. Serial Number: 1 EA 7683 REPAIRED Block 5. Block 5. Certifies that unless otherwise specified in Block 12 and described in Block 12 was accomplished in accordance with Title 14, Code of Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work, the items are approved for Federal Regulations, part 43 and in respect to that work identified in Block 12.
:		1 EA	7683		REPAIRED
ď	in accordance with CMM 73-18-52 Rev. 18 tev. 0 (IAE SB V2500-ENG-73-0240 Rev. 0 3-0247 Rev. 0) were incorporated. his time trine trine order number refer	Dated Apr. 30/2023) and IHI SB 17300-73 enced in Block 5.	.009 Rev. 0		
 13a. Certifies the items identified above were manuface □ Approved design data and are in a condition for s □ Non-approved design data specified in Block 12. 	e manufactured in conformity to: dition for safe operation. Block 12.	14a. X 14 CFR 43.9 Retunded to the control of the c	n to Service ss otherwise specified Block 12 was accomplis ns, part 43 and in respe	Other regulat in Block 12, the in accordant in accordant in accordant to that wo	4 CFR 43.9 Return to Service
13b. Authorized Signature:	13c: Approval/Authorization No.:	14b. Authorized Signature:	SA PA		14c. Approval/Certificate No.: GA4Y199M
13d. Name (Typed or Printed):	13e. Date (dd/mmm/yyyy):	14d. Name (Typed or Printed).	takaki Nakazono	7	14e. Date (dd/mmm/yyyy): 18 DEC 2023
It is important to understand that the existence	User/Installer Responsibilities It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article	User/Installer Responsibilities of automatically constitute authority to install the	aircraft engine/propeller	/article.	
Where the user/installer performs work in aco Block 1, it is essential that the user/installer of specified in Block 1.	It is important to understand that the existence of this document alone does not automatically constitute authority to install the aircraft engine/propeller/article. Where the user/installer performs work in accordance with the national regulations of an airworthiness authority different than the airworthiness authority of the country specified in Block 1, it is essential that the user/installer ensures that his/her airworthiness authority accepts aircraft engine(s)/propeller(s)/article(s) from the airworthiness authority of the country specified in Block 1.	strute authority to install the less authority different than t aircraft engine(s)/propeller(s)	aircraft engine/propeller he airworthiness authorit /article(s) from the airwo	Varticle. If y of the country orthiness auth	try specified in ority of the country
Statements in Blocks 13a and 14a do not constitute installation certificatinational regulations by the user/installer before the aircraft may be flown.	Statements in Blocks 13a and 14a do not constitute installation certification. In all cases, aircraft maintenance records must contain an installation certification issued in accordance with the national regulations by the user/installer before the aircraft may be flown.	naintenance records must cor	itain an installation certif	ication issued	in accordance with the

				TO AND THE TIME THE TABLE THE TABLE
1. Approving Competent Authority / Country	2. AUTHUR	ISED RELEAS	2. AUTHORISED RELEASE CERTIFICATE	3. Form Tracking Number
EASA	EA	EASA FORM 1	RM 1	MA/EASA-23-0331
4. Organisation Name and Address:				5. Work order/Contract/ Invoice
IHI Corporation				4324649-6122
229, Tonogaya, Mizuho-machi,	lizuho-machi,			P/O No. R419655
	Nishitama-gun, Tokyo 190-1297, Japan			
6. Item 7. Description	8. Part No.	9. Qty.	10. Serial No.	11. Status/Work
001 FUEL DIVERTER & RETURN VALVE	17300G12	1 EA	7683	Repaired
12. Remarks Inspected and Repaired in accordance with CMM 73-18-52 Rev. 18 Dated Apr. 30/2023	M 73-18-52 Rev. 18 Dated	Apr. 30/20	23	
IHI SB 17300-73-008 Rev. 0 (IAE SB V2500-ENG-73-0240 Rev. 0) and IHI SB 1' (IAE SB V2500-ENG-73-0247 Rev. 0) were incorporated. No applicable ADs at this time Details are on file under the customer's work order number referenced in Block	ENG-73-0240 Rev. 0) and ncorporated. k order number referenced	IHI SB 173	7300-73-009 Rev. 0 5.	
13a. Certifies that the items identified above were manufactured in conformity to	nformity to:	14a. 🛛 Part-	14a. 🛭 Part-145.A.50 Release to Service	☐ Other regulation specified in block 12
☐ approved design data and are in a condition for safe operation☐ non-approved design data specified in block 12		Certifies that 12, was accor ready for rele	Certifies that unless otherwise specified in block 12, t 12, was accomplished in accordance with Part-145 ar ready for release to service.	Certifies that unless otherwise specified in block 12, the work identified in block 11 and described in block 12, was accomplished in accordance with Part-145 and in respect to that work the items are considered ready for release to service.
13b. Authorised Signature	13c. Approval/ Authorisation Number	14b. Authorised Signature	ed Signature 600354	14c. Certificate/Approval Ref. No. EASA. 145.0084
13d. Name 13e. Date (dd mmm уууу)	ת אעעע)	14d. Name		14e. Date (dd mmm yyyy)
			Takaki Nakazono	18 DEC 2023
USER/INSTALLER RESPONSIBILITIES This certificate does not automatically constitute authority to install the item(s).	e item(s).			
Where the user/installer performs work in accordance with regulations of an airworthiness authority different than the that his/her airworthiness authority accepts items from the airworthiness authority specified in block 1.	of an airworthiness authority differ ss authority specified in block 1.		worthiness authority specified in block	airworthiness authority specified in block 1, it is essential that the user/installer ensures
Statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft maintenance records	ation. In all cases aircraft maintena		ust contain an installation certification is	must contain an installation certification issued in accordance with the national regulations

			11
2. AUTHORISED R	ELEASE CER	TIFICATE	3. Form Tracking Number
0	AA FORM 1		MA/CAAUK-23-0071
			5. Work Order/Contract/Invoice
izuho-machi, Nishitama-gun, Japan			4324649-6122 P/O No. R419655
8. Part No	9. Qty.	10. Serial No	11. Status/Work
17300G12	1 EA	7683	Repaired
ce with CMM 73-18-52 Rev	v. 18 Dated Apı	: 30/2023	
3B V2500-ENG-73-0240 Re	ev. 0) and IHI S	B 17300-73-009 Rev. 0	
0) were incorporated.			
ner's work order number re	eferenced in Bl	ock 5.	
e manufactured in conformity to:	14a. ⊠ Part 145.		☐ Other regulation specified in block 12
tion for safe operation lock 12	Certifies that u and described respect to that	nless otherwise specified in block 12, th in block 12, was accomplished in accord work the items are considered ready for	e work identified in block 11 dance with Part 145 and in release to service.
Approval/Authorisation per	14b. Authorised S	gnature	14c. Certificate/Approval Ref. No
Date	14d. Name Tal		14e. Date 18 DFC 2023
authority to install the item(s).			
dance with regulations of an airwort thiness authority accepts items fror	thiness authority difi m the airworthiness	erent than the airworthiness author authority specified in block 1.	ity specified in block 1, it is essential
ute installation certification. In all causer/installer before the aircraft may	ases aircraft mainte y be flown.	nance records must contain an inst	allation certification issued in
	4. Organisation Name and Address: I	1. Approving Competent Authority/Country CAA/UK 4. Organisation Name and Address: III Comporation Tokyo 190-1297, Japan 6. Item 7. Description FUEL DIVERTER & RETURN VALVE 17300G12 12. Remarks Inspected and Repaired in accordance with CMM 73-18-52 Rev. 18 Dated App Final Test: Accepted IIII SB 17300-73-008 Rev. 0 (IAE SB V2500-ENG-73-0240 Rev. 0) and IIII S (IAE SB V2500-ENG-73-0247 Rev. 0) were incorporated. No applicable ADs at this time Details are on file under the customer's work order number referenced in Bl con-approved design data specified in block 12 13a. Certifies that the items identified above were manufactured in conformity to: Certifies that the items identified above were manufactured in conformity to: Certifies that user/installer performs work in accordance with regulations of an airworthiness authority of install the items from the airworthiness statements in blocks 13a and 14a do not constitute installation certification. In all cases aircraft mainte accordance with the aircraft may be flown.	E CERTIFICATE RM 1 10. Serial No 7683 ted Apr. 30/2023 ted Apr. 30/2023 d IHI SB 17300-73-009 Rev art 145.A.50 Release to Service liftes that unless otherwise specified in block 12, was accomplished eect to that work the items are considered norised Signature Takaki Nakazono Takaki Nakazono Takaki Nakazono Takaki Nakazono Takaki Nakazono



MIZUHO AERO-ENGINE WORKS

229, Tonogaya, Mizuho-machi, Nishitama-gun, TOKYO 190-1297, JAPAN

ENGINEERING REPORT

No.: INV	-23-333	DATE:	2023	/12/8

4	DE.	TATI	OF	LILLITT
	1)	LAIL	()-	LIMIT

UNIT NAME

FUEL DIVERTER AND RETURN VALVE

ENGINE TYPE

V2500 17300G09

VENDER P/N IAE P/N

5L0076

UNIT S/N

7683

CUSTOMER

A J Walter(Aviation) Ltd

ARRIVAL DATE

2023/11/14

TSN / TSO

23,662:49 Hr / UNK Hr

CSN / CSO

15141 / UNK

2. CONTRACT & REFERENCE

OPERATOR ORDER No. : R419655

3. REASON FOR RETURN:

VALVE STUCK OPEN

(R.F.R.)

4. WORK CLASSIFICATION:

REPAIR, MODIFICATION AND FINAL TEST

5. FINDING

MAIN VALVE SCHEDULE

RATIO:	0.27	LIMIT	[cc/min]
L1:	1100	147 MAX.	
L2 :	1000	147 MAX.	

THE METERING PORT OF MAIN VALVE WAS DAMAGED. THE MATING SURFACE OF LP UNION HAD CONTACT MARK.THE LVDT WAS REPLACED FOR INVESTIGATION.THE PUSHING PISTON WAS REPLACED FOR SB17300-73-009.THE RUBBER OF MICRO SWITCH(3-75A) WAS BROKEN.THE PISTON OF CPV WAS WORN. THE INSULATOR OF CONNECTOR(1-115A) WAS DAMAGED. THE TEFLON TUBE OF TORQUE MOTOR WAS WET.THE THREAD OF HP UNION WAS DAMAGED.

6. CONCLUSION

□ R.F.R. WAS CONFIRMED

R.F.R. WAS NOT CONFIRMED

THE MAIN VALVE WASN'T FAILED OPEN AT SHOP IN.THEREFORE R.F.R. WASN'T CONFIRMED.BUT MAIN VALVE MIGHT NOT MOVE SMOOTHLY BECAUSE METERING PORT OF MAIN VALVE WAS DAMAGED. THE DEFECTIVE PARTS WERE REPLACED.

7. AREA OF DISASSEMBLY

■ FRV

■ FDV

☐ EXTERNAL

8. MODIFICATION

APPLIED

□ NOT APPLIED

VENDOR SB No.

SB 17300-73-008,-009

IAE SB No.

V2500-ENG-73-0240,-73-0247

VENDOR P/N AFTER MODIFICATION

17300G12

IAE P/N AFTER MODIFICATION

UNIT IS SHIPPED IN SERVICEABLE CONDITION AFTER ABOVE WORK.

Prepared by

Checked by

Approved by

Y. Wada 2023.12 Y.WADA

T.ISHIBASHI

T. Ishibashi

2023. 12.P

N.KAMISAKA MANAGER

2023. Dec. 8

ENGINEER

ENGINEER

ACCESSORIES

PACKING LIST

14-Dec-2023 Date: V2500 ENGINE MATERIAL Shipping B AND H WORLDWIDE INC DORAL Invoice No. VFA23333 Mark 1523 NW 82nd Avenue & DORAL, FL 33126, USA Package No. Box No. 1 Style MADE IN JAPAN Packaging INVOICE No. VFA23333 Style: Carton Box P/O No. R419655 5.3 Weight Net 9.0 kg Gross kg 61 35 Measurement L (0.064 m^3) W Н 30 х Х cm Manufacturer **IHI** Corporation CONTENTS Item No. Part No. Description Quantity 1 17300G12 FUEL DIVERTER & RETURN VALVE 1 ea S/N: 7683 (Complete)



229, TONOGAYA, MIZUHO-MACHI, NISHITAMA-GUN, TOKYO, 190-1297, JAPAN

SHIPPING INVOICE

NO. V F A 2 3 3 3 3

Date: 14-Dec-2023

INVOICE of V2500 FUEL DIVERTER & RETURN VALVE

Sold by order and for account and risk of

HS CODE: 8411.91

Messer.: B AND H WORLDWIDE INC DORAL

Address: 1523 NW 82nd Avenue,, DORAL, FL 33126, USA

Shipped: From NARITA TO DORAL Per

MARKS & Nos.	Q'TY	DESCRIPTION	PRICE	AMOUNT
		AIRCRAFT PARTS V2500 ENGINE PARTS (A5/D5)	<u>F.O.B.</u>	
	1EA	FUEL DIVERTER & RETURN VALVE P/N 17300G12	US\$35,000.00	US\$35,000.00
	-	S/N 7683		
		REPAIR CHARGE		US\$26,800.00

TOTAL: 1 BOX

RETURN CARGO FOR REPAIR

- NO COMMERCIAL VALUE -

THE ABOVE UNIT WAS REPAIRED ACCORDING TO THE PURCHASE ORDER No. R419655

COUNTRY OF ORIGIN: JAPAN E.& O.E.



229, TONOGAYA, MIZUHO-MACHI, NISHITAMA-GUN, TOKYO, 190-1297, JAPAN

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		AIDCDAFT DADTS		
		AIRCRAFT PARTS V2500 ENGINE PARTS (A5/D5)	<u>F.O.B.</u>	
18	EA	FUEL DIVERTER & RETURN VALVE P/N 17300G12 S/N 7683	US\$35,000.00	US\$35,000.00
		REPAIR CHARGE	-	US\$26,800.00

TOTAL: 1 BOX

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		P/N 17300G12 S/N 7683		
		REPAIR CHARGE	-	US\$26,800.00

TOTAL: 1 BOX

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		P/N 17300G12 S/N 7683		
		REPAIR CHARGE		US\$26,800.00

TOTAL: 1 BOX

RETURN CARGO FOR REPAIR

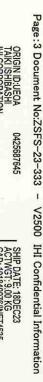
- NO COMMERCIAL VALUE -

THE ABOVE UNIT WAS REPAIRED ACCORDING TO THE PURCHASE ORDER No. R419655

COUNTRY OF ORIGIN: JAPAN E.& O.E.

PACKING LIST

14-Dec-2023 Date: V2500 ENGINE MATERIAL Shipping B AND H WORLDWIDE INC DORAL Invoice No. VFA23333 Mark 1523 NW 82nd Avenue & DORAL, FL 33126, USA Package No. Box No. 1 Style MADE IN JAPAN Packaging INVOICE No. VFA23333 Style: Carton Box P/O No. R419655 5.3 Weight Net kg Gross 9.0 kg 61 35 (0.064 m^3) Measurement W 30 Н Х Х cm Manufacturer **IHI** Corporation CONTENTS Item No. Part No. Description Quantity 1 17300G12 FUEL DIVERTER & RETURN VALVE 1 ea S/N: 7683 (Complete)





このラベルの印刷後: 荷受人用コピー - パウチの手前に入れてください
1. 水平ラインに沿ってページを折ります
2. ラベルをパウチに入れて貨物に貼付します

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