

INSTALLATION INSTRUCTIONS

P/N BI 6005

AIR/OIL SEPARATOR KING AIR 300, B300 SERIES

KIT P/N BI-6001-3

02/16/18 REV: G

DRAWING NUMBER BI 6005

REV. G



IMPORTANT NOTICE

THE RAISBECK ENGINEERING AIR/OIL SEPARATOR INSTALLATION HAS BEEN APPROVED BY THE FEDERAL AVIATION ADMINISTRATION (FAA) UNDER SUPPLEMENT TYPE CERTIFICATE (STC)

THIS INSTALLATION MUST CONFORM TO THE FAA APPROVED RAISBECK ENGINEERING INSTALLATION DRAWINGS AND THE INSTRUCTIONS CONTAINED IN THIS DOCUMENT.

CONFORMITY VARIFICATION OF THE INSTALLED SYSTEM TO THE RAISBECK ENGINEERING INSTALLATION DRAWINGS AND INSTRUCTIONS IS THE RESPONSIBILITY OF THE INSTALLATION FACILITY.

DEVIATIONS TO THE FAA APPROVED RAISBECK ENGINEERING INSTALLATION DRAWINGS AND INSTRUCTIONS MUST BE APPROVED BY BOTH THE FAA AND RAISBECK ENGINEERING. THE INSTALLATION FACILITY IS RESPONSIBLE FOR BOTH COORDINATING AND OBTAINING THAT APPROVAL.

DRAWN		RAISBE	CK ENGINEERIN	NG.				
W. Butterfield	10/15/98							
CHECKED		INSTALI	LATION INSTRU	CTIONS				
J. Whitcomb	10/21/98							
ENGINEER		AIR/OIL	SEPARATOR					
J. Whitcomb	10/21/98							
STRESS		SYSTEM	[
APPROVED W. Butterfield	10/25/98	MODEL	300 SERIES AIRO	CRAFT				
RAISBECK ENGINEERING PROPRIETARY RIGHTS ARE INCLUDED IN THE INFORMATION DISCLOSED HEREIN. NEITHER THIS DOCUMENT NOR THE INFORMATION DISCLOSED HEREIN SHALL BE REPRODUCED, USED OR DISCLOSED IN WHOLE OR PART WITHOUT THE WRITTEN PERMISSION OF RAISBECK ENGINEERING								
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REVISIONS								
LTR	DESCRIPTION	APPROVALS						
A	REVISED TO INSTALL RUBBER AFTER DRILLING AND CHANGING RUBBER TO SELF-ADHESIVE.	DRAWN: B. WHITCOMB 02/15/1998						
	REASON: TO ELIMINATE ACCUMULATION OF SHAVINGS UNDER RUBBER STRIP.	CHECKED: J. WHITCOMB 02/15/1998						
	PRODUCTION INFO: NO KITS DELIVERED. ALL KITS WILL HAVE NEW RUBBER	APPROVED: W. BUTTERFIELD 02/15/1998						
В	REVISION TO ADD BEECHCRAFT MODEL 300 & B300 TO APPLICATION BLOCK	DRAWN: B. WHITCOMB 10/22/1998						
	REASON: TC# IS THE SAME, STRUCTURE IS THE SAME. SAME SEPARATOR CAN BE INSTALLED WITH SAME INSTRUCTIONS UNDER RUBBER STRIP.	CHECKED J. WHITCOMB 10/22/1998						
	PRODUCTION INFO: NEW KIT NUMBER FOR NEW KIT.	APPROVED: W. BUTTERFIELD 10/27/1998						
С	REVISED TO CHANGE THE HOSE THAT CONDUCTS THE AIR THROUGH THE SYSTEM, AND TO CHANGE THE CLAMP THAT IS USED ON THE DRAIN LINES. HOSE = CHANGED FROM FLX200108057600 TP SCDEET 4-480 CLAMP = CHANGED FROM MS35842-10 TO MAS1922-0075-1	DRAWN: B. WHITCOMB 04/15/1999						
	REASON: HOSE = TO USE THE SAME TYPE OF HOSE BEECHCRAFT USES. CLAMP = CLAMP WILL TIGHTEN AT MID RANGE INSTEAD OF NEAR MINIMUM.	CHECKED J. WHITCOMB 04/20/1999						
	PRODUCTION INFO: EXISTING INSTALLATIONS SATISFACTORY	APPROVED: W. BUTTERFIELD 04/25/1999						

	REVISIONS	
ΓR	DESCRIPTION	APPROVALS
D	REVISION TO CHANGE THE INSTALLATION DRAWING, DRAWING NUMBER.	DRAWN: B. WHITCOMB 09/15/2001
	REASON: INSTALLATION DRAWING NUMBERS AND KIT NUMBERS SHOULD MATCH.	CHECKED: J. WHITCOMB 09/15/2001
	PRODUCTION INFO: EXISTING INSTALLATIONS SATISFACTORY.	APPROVED: W. BUTTERFIELI 09/22/2001
E	REVISION TO CHANGE MOUNTING HARDWARE OF THE AIR/OIL SEPARATOR.	DRAWN: B. WHITCOMB 10/06/04
	REASON: TO ALIGN THE INSTALLATION PROCEDURES WITH THAT OF OTHER KING AIR MODEL INSTALLATIONS.	CHECKED: J. WHITCOMB 10/06/04
	PRODUCTION INFO: EXISTING INSTALLATIONS SATISFACTORY.	APPROVED: W. BUTTERFIELI 10/08/04
F	REVISION TO CHANGE SEPARATOR ASSY CONSTRUCTION MATERIAL.	DRAWN B.WHITCOMB 01/02/06
	REASON: TO ALIGN CONSTRUCTION MATERIALS WITH OTHER KING AIR MODEL INSTALLATIONS	CHECKED J. WHITCOMB 01/02/06
	PRODUCTION INFO: EXISTING INSTALLATIONS SATISFACTORY	APPROVED: W. BUTTERFIELI 01/06/06
G	REVISION TO UPDATE INSTALLATION DASH NUMERS, SEE DCN G FOR DETAILS.	APPROVED Xitt & Colum 2/16/18

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1.0 INTRODUCTION

THIS DOCUMENT IS INTENDED TO PROVIDE DETAILED INSTRUCTIONS FOR THE INSTALLATION OF THE RAISBECK ENGINEERING AIR/OIL SEPARATOR SYSTEM, ON THE KING AIR 300 AND B300 FAMILY OF AIRCRAFT.

2.0 REQUIRED DOCUMENTATION

IN ADDITION TO THIS INSTRUCTION MANUAL, THE FOLLOWING DOCUMENTS WILL BE REQUIRED TO INSTALL THE AIR/OIL SEPARATOR SYSTEM.

2.1 RAISBECK SUPPLIED DOCUMENTS

THE FOLLOWING DRAWINGS OF THE CORRECT REVISION ARE SUPPLIED AS PART OF THIS DOCUMENTATION.

BI-6001 SHEET 1 THRU 3, SEPARATOR INSTALLATION

BI 6014 DRAWING LIST

2.2 CUSTOMER SUPPLIED DOCUMENTATION

THE FOLLOWING DOCUMENTS OF THE LATEST REVISION IN EFFECT AT THE TIME OF THE KIT INSTALLATION SHALL BE SUPPLIED BY THE CUSTOMER OR THE INSTALLATION FACILITY:

101-590010-19	BEECHCRAFT KING AIR 200
	MAINTENANCE MANUAL

FAA-AC 43.13-1A ACCEPTED METHODS, TECHNIQUES AND PRACTICES FOR AIRCRAFT ALTERATION, INSPECTION AND REPAIR.

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3.0 GENERAL

THE AIR/OIL SEPARATOR SYSTEM, KIT NUMBER BI-6001-3, IS ELIGIBLE FOR INSTALLATION ON BEECHCRAFT KING AIR 300 AND B300 FAMILY OF AIRCRAFT UNDER AUTHORIZATION OF THESE INSTRUCTIONS AND STC # SA00976CH.

SERIAL NUMBER OF AUTHORIZED AIRCRAFT ARE AS FOLLOWS

FA-1 AND AFTER FF-1 AND AFTER FL-1 AND AFTER FM-1 AND AFTER FN-1 AND AFTER MODEL 300 AND 300WL MODEL 300 MODEL B300 MODEL B300C MODEL B300C

3.1 KIT DESCRIPTION

INSTALLATION OF THE RAISBECK ENGINEERING AIR/OIL SEPARATOR SYSTEM EXTRACTS OIL FROM THE BREATHER LINE AND COLLECTS RESIDUE OIL FROM ENGINE ACCESSORY SECTION GARLOCK SEALS. THIS ELIMINATES THE OIL RESIDUE THAT COLLECTS ALONG THE FLAP TRAILING EDGE AS WELL AS THE BOTTOM OF THE NACELLE.

MODIFICATION REQUIRES INSTALLATION OF THE SEPARATOR TO THE FIREWALL. IT ALSO REQUIRES THE INSTALLATION OF AN OIL RESIDUE TANK TO HOLD THE OIL COLLECTED. IT REQUIRES THE INSTALLATION OF HOSES FROM THE ENGINE TO THE SEPARATOR AND FROM THE SEPARATOR TO THE NORMAL EXIT ON THE FIREWALL. IT ALSO REQUIRES INSTALLATION OF A DRAIN HOSE TO THE RESIDUE TANK.

NOTE: INSTALLATION OF THE SYSTEM REQUIRES INSTALLATION OF THE **RAISBECK 'OIL RESDUE COLLECTION SYSTEM'** STC SA00975CH. THIS PROVIDES A CONTAINER FOR THE OIL TO BE COLLECTED IN.

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3.2 KIT CONTENTS

THE CONTENTS OF THE BI-6001-3 KIT ARE AS SPECIFIED IN THE LIST OF MATERIALS ON SHEET 1 OF THE DRAWING LISTED IN PARAGRAPH 2.1. ADDITIONALLY, THE KIT CONTAINS A DATA PACKAGE CONTAINING:

- 1) BI 6005 INSTALLATION INSTRUCTIONS
- 2) DRAWINGS LISTED IN PARAGRAPH 2.1
- 3) ONE COPY OF THE STC
- 4) BI 6025 (ICA) INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

RAISBECK ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY OF ANY SHORTAGES OR OTHER DISCREPANCIES.

3.3 SPECIALIZED TOOLING REQUIRED

IN ADDITION TO STANDARD AIRCRAFT TECHNICIAN'S TOOLS, THE FOLLOWING TOOLING WILL BE REQUIRED:

3.3.1 CUSTOMER SUPPLIED TOOLS

NONE

3.3.2 RAISBECK ENGINEERING SUPPLIED TOOLS

NONE

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4.0 AIRPLANE PREPARATION

NO SPECIAL AIRPLANE PREPARATION IS REQUIRED PRIOR TO INITIATING INSTALLATION OF THE AIR/OIL SEPARATOR KIT.

5.0 **REMOVALS**

THE OPERATION DEFINED HERE ARE THOSE NECESSARY TO REMOVE AND ALTER COMPONENTS FROM THE LEFT AND RIGHT HAND NACELLE. THE EVENTS ARE PRESENTED IN A RECOMMENDED SEQUENCE. HOWEVER, THAT SEQUENCE MAY BE ALTERED TO SUIT THE CUSTOMER OR THE INSTALLATION FACILITY.

REF. DRAWING BI-6001 SHEET 1

REF. BEECHCRAFT SUPER KING AIR 300 MAINTENANCE SUBJECT 71-00-00

- 1) OPEN BOTH SIDE COWLINGS
- 2) IF THE OIL RESIDUE COLLECTION SYSTEM HAS NOT BEEN INSTALLED, YOU MAY WISH TO REMOVE THE AFT LOWER COWLING TO GAIN ACCESS TO THE LOWER FIREWALL.
- 3) REMOVE STARTER GENERATOR COOLING DUCT FOR ACCESS.
- 4) REMOVE CLAMPS ON BREATHER LINES AT THE ENGINE AND AT THE FIREWALL EXIT FIXTURE.
- 5) REMOVE BREATHER LINES AND DISCARD: L/H P/N SCDEETS4-168-5 R/H P/N SCDEETS4-116-5

ON SOME INSTALLATIONS, THERE IS AN ADEL CLAMP INSTALLED TO SECURE THE ABOVE LISTED BREATHER LINE TO THE FIREWALL.

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NOTE:

FOR THOSE MODELS WITH AN INSULATION BLANKET INSTALLED ON THE FIREWALL, IT WILL BE NECESSARY TO REMOVE OR AT LEAST PARTLY REMOVE THIS COVER TO EXPOSE THE FIRESWALL. RECOMMEND REMOVAL OF THE TOP COWLING. REMOVE SCREWS HOLDING INSULATION BLANKET FROM THE TOP DOWN.

IT WILL ONLY NEED TO BE REMOVED ENOUGH TO ALLOW FOR INSTALLATION OF STUDS.

6.0 KIT INSTALLATION

6.1 SEPARATOR INSTALLATION

REF: DRAWING BI-6001 SHEET 2 & 3

-5 INSTALLATION IS FOR LEFT HAND NACELLE -7 INSTALLATION IS FOR RIGHT HAND NACELLE

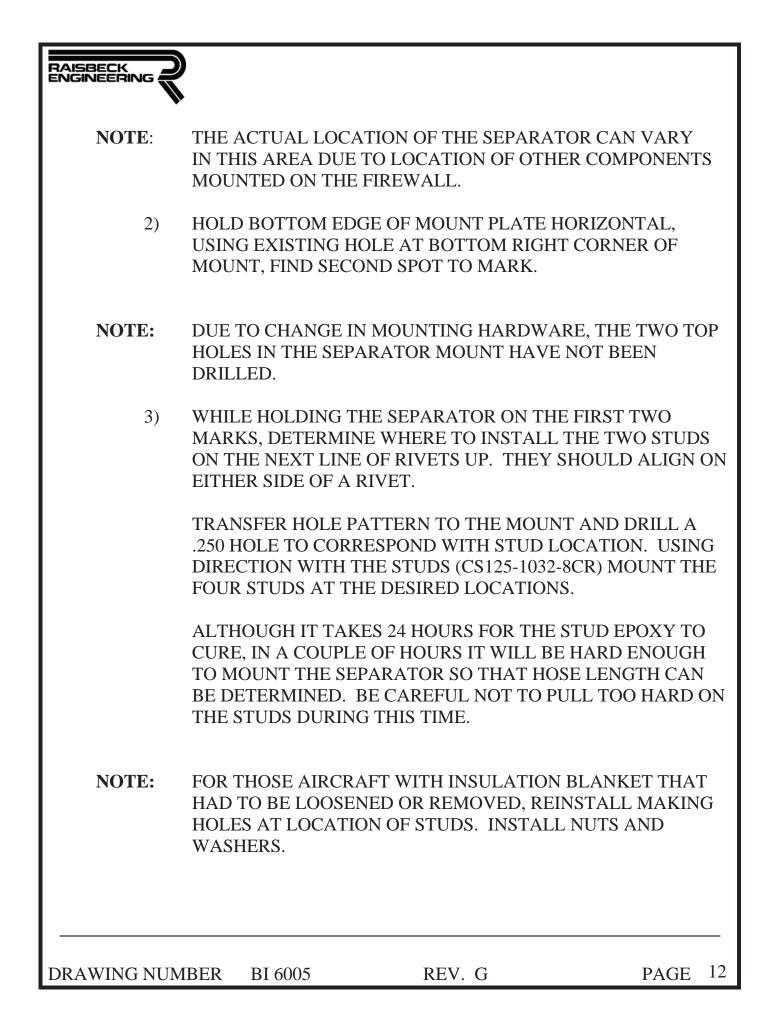
THE INSTALLATION OF THE SEPARATOR UNIT ITSELF IS COMMON TO BOTH SIDES AND WILL BE DESCRIBED IN SECTION 6.1

HOSE INSTALLATION WILL BE OUTLINED IN SECTION 6.2.

1) LOCATE THE REFERENCE POINT ON DRAWING BI-6001 SHEET 2 OR SHEET 3. IT SHOULD BE ON THE FOURTH ROW OF RIVETS DOWN. THEN COUNT FOUR RIVETS TO THE RIGHT FROM THE VERTICAL LINE ON THE LEFT SIDE OF THE FIREWALL. (ABOUT 7 INCHES) (FACING THE FIREWALL). THE POINT YOU ARE LOOKING FOR IS HALFWAY BETWEEN THAT RIVET AND THE RIVET TO THE RIGHT. MARK THAT POINT. HOLD THE SEPARATOR TO THE FIREWALL USING THE LOWER LEFT MOUNT HOLE TO THIS SPOT. INSURE IT MATCHES APPROPRIATE DRAWINGS.

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6.2 HOSE INSTALLATION

REF: DRAWING BI-6001 SHEET 2 & 3

-5 (L/H) INSTALLATION

USING THE 10' HOSE P/N HTFL15-120, CUT A LENGTH SUITABLE TO CONNECT THE ENGINE TO THE INLET (LH) END OF THE SEPARATOR. SECURE ENDS WITH MS35842-11 CLAMPS. REINSTALL ANY OTHER DEVICES USED TO SECURE ORIGINAL HOSE.

CUT A SUITABLE LENGTH OF BREATHER HOSE TO CONNECT THE EXIT ON THE SEPARATOR (TOP) AND THE BREATHER EXIT FIXTURE ON THE FIREWALL. SECURE WITH MS35842-11 HOSE CLAMPS.

IF THE OIL RESIDUE COLLECTION SYSTEM TANK HAS NOT BEEN INSTALLED BEFORE NOW, YOU MUST DO SO TO CONTINUE.

ON THE TANK THERE WILL BE ONE 3/8" HOSE NIPPLE EMPTY. YOU WILL CUT A SUITABLE LENGTH PIECE OF 3/8" F4040A TUBING AND CONNECT THIS EMPTY NIPPLE WITH THE OIL RESIDUE EXIT ON THE SEPARATOR. SECURE BOTH ENDS OF THIS LINE WITH A BREEZE 6604 CLAMP.

-7 (R/H) INSTALLATION

CUT A LENGTH OF BREATHER LINE TO BE CONNECTED TO THE ENGINE AND THE SEPARATOR. THIS LENGTH OF HOSE WILL BE THE SAME LENGTH AS THE FIRST PIECE YOU CUT. INSTALL USING MS35842-11 CLAMPS.

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THE EXIT LINE WILL BE CONSIDERABLY LONGER AND WILL BE IN TWO PIECES. THIS IS DUE TO THE FACT THE FIREWALL EXIT IS HIGHER THAN THE EXIT FROM THE SEPARATOR. SEE ON DRAWING BI-6001 SHEET 3, YOU WILL HAVE TO INSTALL A BI-6102-1 TEE IN THE LINE TO DRAIN ANY MOISTURE THAT MAY ACCUMLATE IN THE LINE. CUT ENOUGH BREATHER LINE TO MAKE THE ENTIRE LOOP FROM THE SEPARATOR TO THE EXIT ON THE FIREWALL. DETERMINE THE LOW POINT OF YOUR LOOP AND CUT THE HOSE. INSTALL BI-6102-1 TEE IN LINE WITH 3/8" NIPPLE POINTING DOWN. SECURE ALL FOUR ENDS OF BREATHER LINE WITH MS35842-11 CLAMPS. CUT A SUITABLE LENGTH OF F4040A TUBING AND SECURE TO NIPPLE OF LARGE BI-6102-1 TEE WITH BREEZE 6604 CLAMP.

THE SUITABLE LENGTH OF THE PREVIOUS TUBE WILL BE DETERMINED BY WHERE YOU WANT TO INSTALL THE 3/8" 'Y' FIXTURE.

ONCE YOU HAVE DETERMINED THIS, INSTALL THE BI-6102-3 'Y' FIXTURE ON THE END OF THE PREVIOUS TUBE AND SECURE WITH A BREEZE 6604 CLAMP. CUT A LENGTH OF F4040A TUBING TO CONNECT THE OPEN UPPER END OF THE BI-6102-3 'Y' FIXTURE WITH THE DRAIN FITTING ON THE SEPARATOR. NOW CUT A SUITABLE LENGTH OF F4040A TUBING TO CONNECT THE BI-6102-3 'Y' FIXTURE WITH THE OPEN 3/8" NIPPLE ON THE RESIDUE OIL TANK. SECURE BOTH ENDS WITH BREEZE 6604 CLAMPS.

6.3 FINAL INSTALLATION

CHECK TO SEE IF NEW BREATHER LINE OR F4040A TUBING NEEDS SECURING TO PREVENT CHAFFING ON OTHER LINES. WHATEVER DEVICE IS USED, INSURE THE TUBE IS NOT DEFORMED AS TO RESTRICT THE FLOW OF AIR OR FOR FLUID DRAINAGE.

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REINSTALL STARTER-GENERATOR COOLING DUCT ALONG WITH ANY OTHER ITEMS REMOVED TO FACILITATE INSTALLATION OF THIS KIT.

REINSTALL COWLINGS, IF REMOVED TO INSTALL THE RESIDUE TANK.

6.4 INSPECTION

THERE IS NO INSPECTION CRITERIA FOR THE SEPARATOR. IT IS NOT A COLLECTION POINT NOR IS IT SUBJECT TO ACCUMULATION OF ANY FOREIGN MATERIAL. CHECK BI 6025 (ICA) INSTRUCTIONS CONTINUED AIRWORTHINESS FOR REQUIRED PERIODIC MAINTENANCE.

7.0 RETURN AIRPLANE TO SERVICE

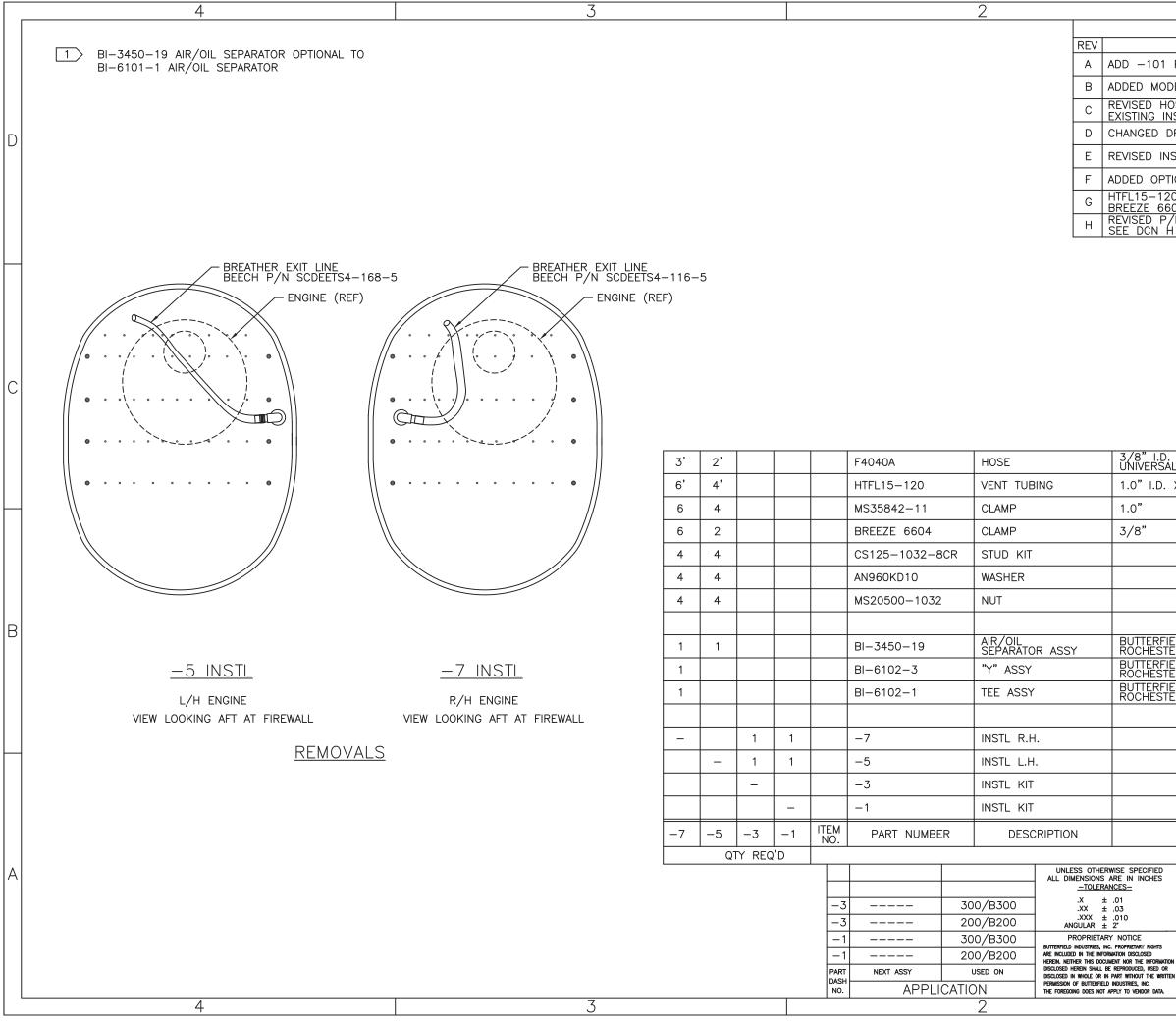
1) COMPLETE AN APPROPRIATE ENTRY IN THE AIRPLANE LOGBOOK

EXAMPLE: INSTALLED RAISBECK ENGINEERING AIR/OIL SEPARATOR SYSTEM PART NUMBER BI-6001-1 AS PER STC SA00829CH.

- 2) COMPLETE THREE COPIES OF FAA FORM 337. INSERT ORIGINAL IN AIRPLANE FLIGHT MANUAL. MAIL ONE COPY TO LOCAL FAA-FSDO AND RETAIN ONE COPY FOR THE INSTALLER
- 3) NO WEIGHT AND BALANCE CHANGE

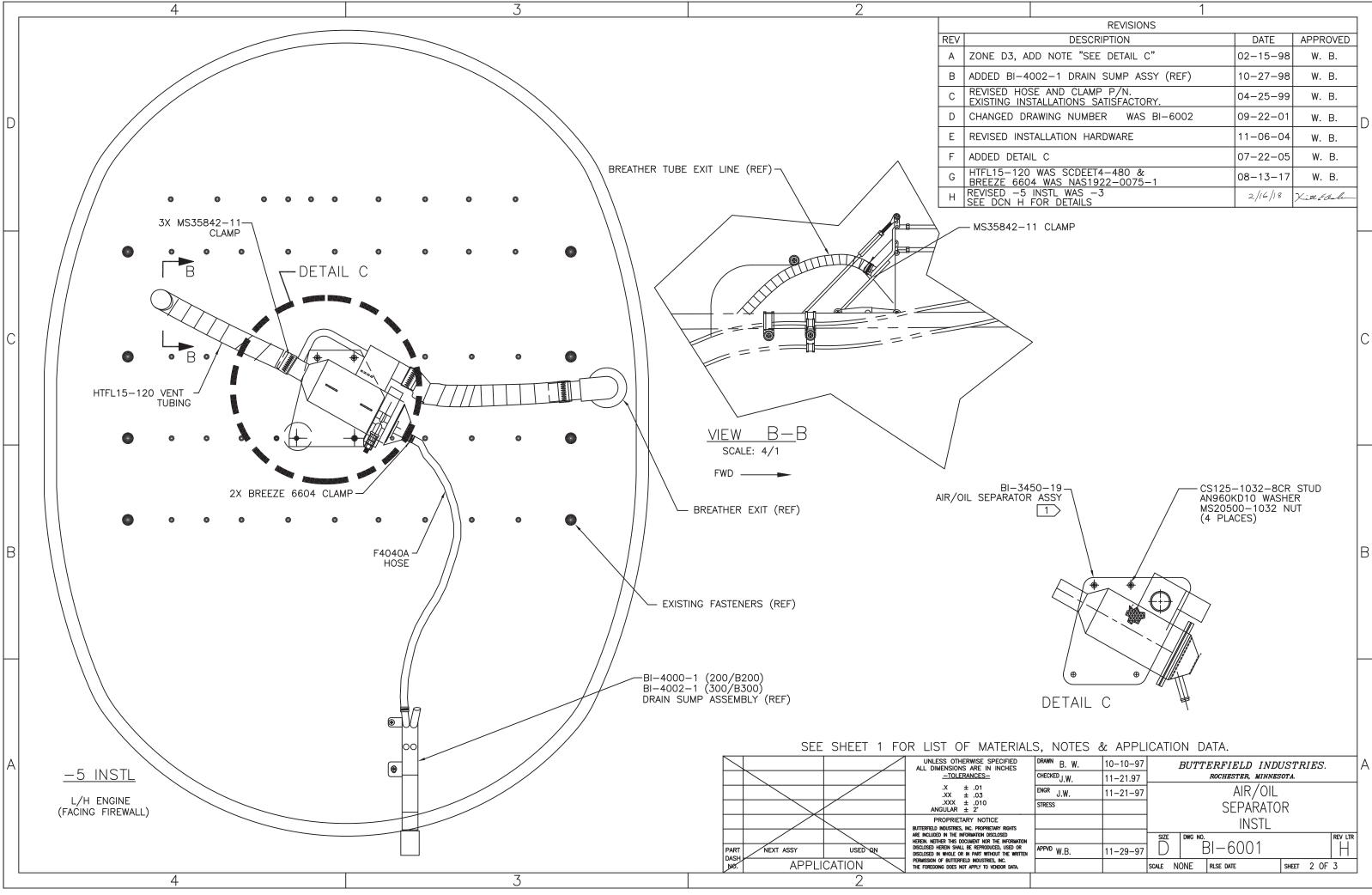
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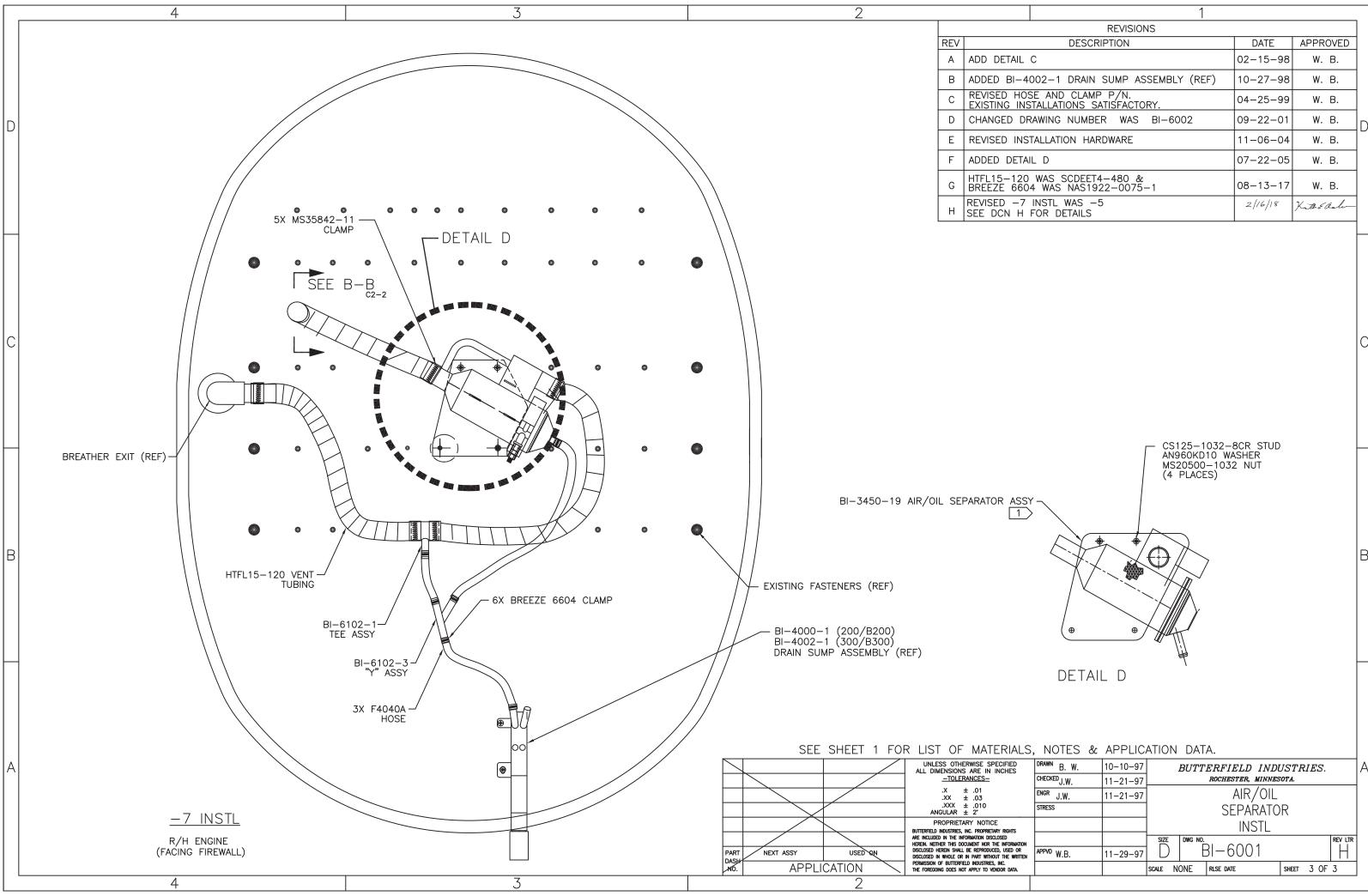
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IOSE AND CLAMP P/N. NSTALLATIONS SATISFACTORY.	04-25-99	W. B.							
DRAWING NUMBER WAS BI-6002	09-22-01	W. B.							
NSTALLATION HARDWARE	11-06-04	W. B.							
TIONAL AIR/OIL SEPARATOR BI-3450-19	07-22-05	W. B.							
20 WAS SCDEET4-480 & 604 WAS NAS1922-0075-1	08-13-17	W. B.							
P/N BI-6102-1/-3 WAS BI-6002-1/-3 H FOR DETAILS	2/16/18	Kitte & Cale							

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