INSTALLATION INSTRUCTIONS

P/N BI 1013

OIL RESIDUE COLLECTION SYSTEM KING AIR 200, B200 SERIES

KIT P/N BI 1011-1

11/12/07 REV: C

DRAWING NUMBER BI 1013

REV. C

1

208-466-4622

IMPORTANT NOTICE

THE BUTTERFIELD INDUSTRIES OIL RESIDUE COLLECTION SYSTEM INSTALLATION HAS BEEN APPROVED BY THE FEDERAL AVIATION ADMINISTRATION (FAA) UNDER SUPPLEMENT TYPE CERTIFICATE (STC)

THIS INSTALLATION MUST CONFORM TO THE FAA APPROVED BUTTERFIELD INDUSTRIES INSTALLATION DRAWINGS AND THE INSTRUCTIONS CONTAINED IN THIS DOCUMENT.

CONFORMITY VERIFICATION OF THE INSTALLED SYSTEM TO THE BUTTERFIELD INDUSTRIES INSTALLATION DRAWINGS AND INSTRUCTIONS IS THE RESPONSIBILITY OF THE INSTALLATION FACILITY.

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

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CHECKED		INSTALLATION]	INSTRUCTIO	NS
A. ERDAHL	08/31/88			
ENGINEER		OIL RESIDUE CO	DLLECTION	
J. WHITCOMB	08/31/88			
STRESS		SYSTEM		
APPROVED		KING AIR 200 SE	RIES AIRCRA	FT
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REVISIONS

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1.0 INTRODUCTION

THIS DOCUMENT IS INTENDED TO PROVIDE DETAILED INSTRUCTIONS FOR THE INSTALLATION OF THE BUTTERFIELD INDUSTRIES 'OIL RESIDUE COLLECTION SYSTEM', ON THE KING AIR 200 AND B200 FAMILY OF AIRCRAFT.

2.0 REQUIRED DOCUMENTATION

IN ADDITION TO THIS INSTRUCTION MANUAL, THE FOLLOWING DOCUMENTS WILL BE REQUIRED TO INSTALL THE OIL RESIDUE COLLECTION SYSTEM.

2.1 BUTTERFIELD SUPPLIED DOCUMENTS

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

BI-1011 SHEET 1, 2 AND 3 ENGINE DRAIN SUMP INSTALLATION

BI-1012 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 OIL RESIDUE COLLECTION SYSTEM, PART NUMBER BI-1011-1, IS ELIGIBLE FOR INSTALLATION ON BEECHCRAFT KING AIR 200 AND B200 FAMILY OF AIRCRAFT UNDER AUTHORIZATION OF THESE INSTRUCTIONS AND STC # SA4362NM.

SERIAL NUMBER OF AUTHORIZED AIRCRAFT ARE AS FOLLOWS

BB-2 AND AFTER BL-1 AND AFTER BT-1 AND AFTER BN-1 AND AFTER BC-1 AND AFTER BD-1 AND AFTER BJ-1 AND AFTER BT-1 AND AFTER BY-1 AND AFTER BZ-1 AND AFTER MODEL 200 AND B200 MODEL 200C AND B200C MODEL 200T AND B200T MODEL 200CT AND B200CT MODEL A200 MODEL A200 MODEL A200C MODEL A200CT MODEL A200CT MODEL B200CT MODEL B200CT

PRE-MODIFIED AIRCRAFT MUST CONFORM TO INSTALLATION DRAWING BI-1011 (SHEET 1 "MANIFOLD REMOVAL", SHEET 2 "TYP. HOSE ROUTING").

3.1 KIT DESCRIPTION

INSTALLATION OF THE BUTTERFIELD INDUSTRIES OIL RESIDUE COLLECTION SYSTEM ALLOWS THE COLLECTING OF DRAIN FLUID INTO A SINGLE SUMP ASSEMBLY. THE SUMP HAS A DRAIN VALVE, WHICH CAN BE USED PERIODICALLY TO DRAIN THE TANK. THE SYSTEM WILL ELIMINATE THE OIL MESS ON THE BOTTOM OF THE NACELLE AND ON THE MAIN LANDING GEAR. IT WILL ALSO CLEAN UP THE MESSY OIL SPOTS ON THE HANGAR FLOOR AND RAMP WHEN THE AIRCRAFT IS PARKED. THIS IS A MESS AS WELL AS AN EPA HAZARD.

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3.2 KIT CONTENTS

THE CONTENTS OF THE BI-1011-1 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 1013 "INSTALLATION INSTRUCTIONS "
- 2) A COPY OF THE PACKING LIST (PAGE 12)
- 3) DRAWINGS LISTED IN PARAGRAPH 2.1
- 4) ONE COPY OF THE STC

BUTTERFIELD INDUSTRIES SHOULD BE NOTIFIED IMMEDIATELY OF ANY SHORTAGES OR OTHER DISCREPANCIES.

3.3 SPECIALIZED TOOLING REQUIRED

OTHER THAN STANDARD AIRCRAFT TECHNICIAN'S TOOLS, NO SPECIAL TOOLS REQUIRED.

4.0 AIRPLANE PREPARATION

NO SPECIAL AIRPLANE PREPARATION IS REQUIRED PRIOR TO INITIATING INSTALLATION OF THE OIL RESIDUE COLLECTION KIT.

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5.0 **REMOVALS**

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

REF. DRAWING BI-1011 SHEET 1

- 1) GAIN ACCESS TO THE FORWARD SIDE OF THE FIREWALL BY REMOVING COWLING AS REQUIRED.
- 2) DISCONNECT HOSES FROM EXISTING DRAIN MANIFOLD.
- 3) REMOVE AND DISCARD MANIFOLD (101-910099-11) AND THE ATTACHING HARDWARE AS SHOWN.

6.0 KIT INSTALLATION

THE FOLLOWING PARAGRAPHS DEFINE THE INSTALLATION OF THE OIL RESIDUE COLLECTION SYSTEM. THE ACTIVITIES SPECIFIED HEREIN ARE PRESENTED IN A RECOMMENDED SEQUENCE. HOWEVER, THAT SEQUENCE MAY BE ALTERED TO SUIT THE CUSTOMER OR THE INSTALLATION FACILITY. UNLESS OTHERWISE SPECIFIED, INSTALLATION OF ALL HARDWARE SHALL CONFORM TO FAA-AC 43.13-1A.

NOTE: AIRCRAFT MODEL A200 AND EARLY SERIAL NUMBERED AIRCRAFT NOT MODIFIED WITH SERVICE BULLETIN TO DUCT ENGINE VENT LINE THROUGHT THE WHEEL WELL WILL REQUIRE THE BI 4000-5 SUMP ASSEMBLY AND WILL REFER TO DRAWING BI 1011-SHEET 3 FOR INSTALLATION. AN ADDITIONAL HOLE WILL BE REQUIRED IN LOWER COWLING TO ACCOMMODATE VENT TUBE.

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6.1 SUMP ASSEMBLY INSTALLATION

- REF. DRAWING BI 1001 SHEET 2
- 1) POSITION SUMP ASSEMBLY (BI-4000-1) ON THE ENGINE FIREWALL AS SHOWN.
 - NOTE: THE EXISTING HOLE IN THE COWL MAY REQUIRE ENLARGEMENT TO ACCEPT THE NECK OF THE SUMP ASSEMBLY.
- 2) ATTACH THE SUMP ASSEMBLY WITH TWO BOLTS (AN3H3A) AND WASHERS (AN960KD10) AT TWO EXISTING NUTPLATE LOCATIONS.
- 3) SAFETY-WIRE THE TWO BOLTS AS SHOWN.

6.2 HOSE ASSEMBLY INSTALLATION

CONNECT HOSES TO SUMP ASSEMBLY IN SAME POSITIONS.

6.3 FINAL INSTALLATION

- 1) PERFORM A DETAILED INSPECTION OF ALL WORK ACCOMPLISHED.
- 2) INSTALL ALL COWLING REMOVED TO GAIN ACCESS FOR THE MODIFICATION.
- NOTE: DRAIN VALVE MAY BE REMOVED DURING COWLING INSTALLATION AND THEN REINSTALLED.

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6.4 INSPECTION

THERE IS NO INSPECTION CRITERIA FOR THE SUMP. CHECK CONTINUED AIRWORTHINESS INSTRUCTIONS ON PAGE 13 FOR SUGGESTIONS AS TO PERIODIC MAINTENANCE.

7.0 RETURN AIRPLANE TO SERVICE

1) COMPLETE AN APPROPRIATE ENTRY IN THE AIRPLANE LOGBOOK

EXAMPLE: INSTALLED BUTTERFIELD INDUSTRIES OIL RESIDUE COLLECTION SYSTEM PART NUMBER 1011-1 AS PER STC SA4362NM.

- 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

Butterfield Industries, In 208-466-4622	nc.								
PACK	ING LIST								
KIT P/N BI 1011-1									
RESIDUE TANK ASSEMBLY	BI 4000-1 OR BI 4000-5 (A200)	2 EA.							
WASHER	AN960KD10	4 EA.							
BOLT	AN 3H3A	4 EA.							
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CONTINUED AIRWORTHINESS INSTRUCTIONS

THERE ARE NO SCHEDULED INSPECTION PERIODS FOR ANY COMPONENT OF THE BUTTERFIELD INDUSTRIES 'OIL RESIDUE COLLECTION SYSTEM'.

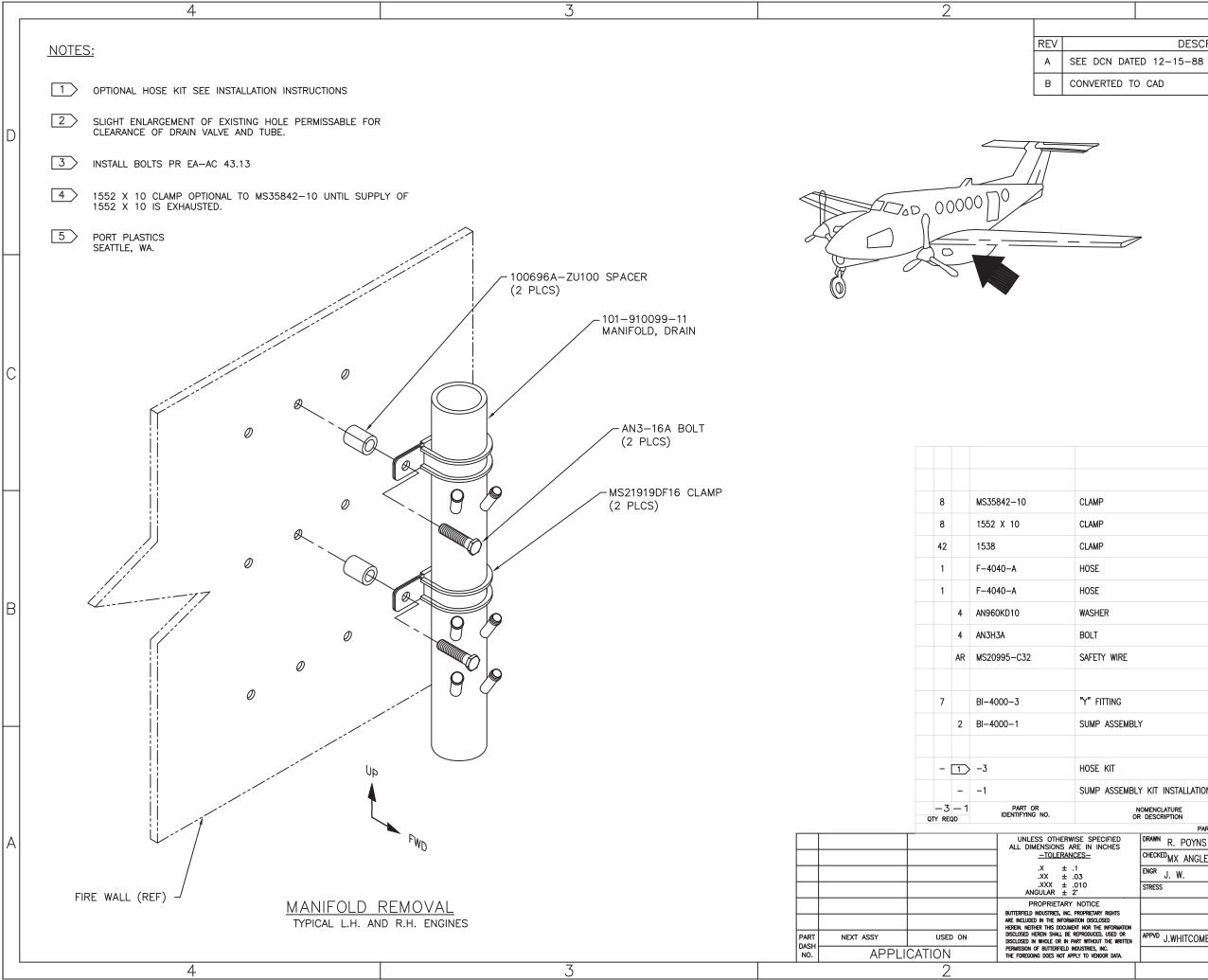
USE THE FOLLOWING GUIDELINES FOR SUCCESSFUL CONTINUED AIRWORTHINESS.

ANYTIME THE COWLING IS OPEN FOR INSPECTION, THE OIL RESIDUE TANK SHOULD BE INSPECTED FOR CONDITION AND SECURITY.

ALL HOSE CLAMPS TO TANK SHOULD BE INSPECTED FOR CONDITION AND SECURITY.

THE TANK SHOULD BE DRAINED ON A PERIODIC BASIS.

IF THE TANK IS NOT DRAINED, THE RESIDUE OIL WILL DRAIN FROM THE OVERFLOW TUBE.



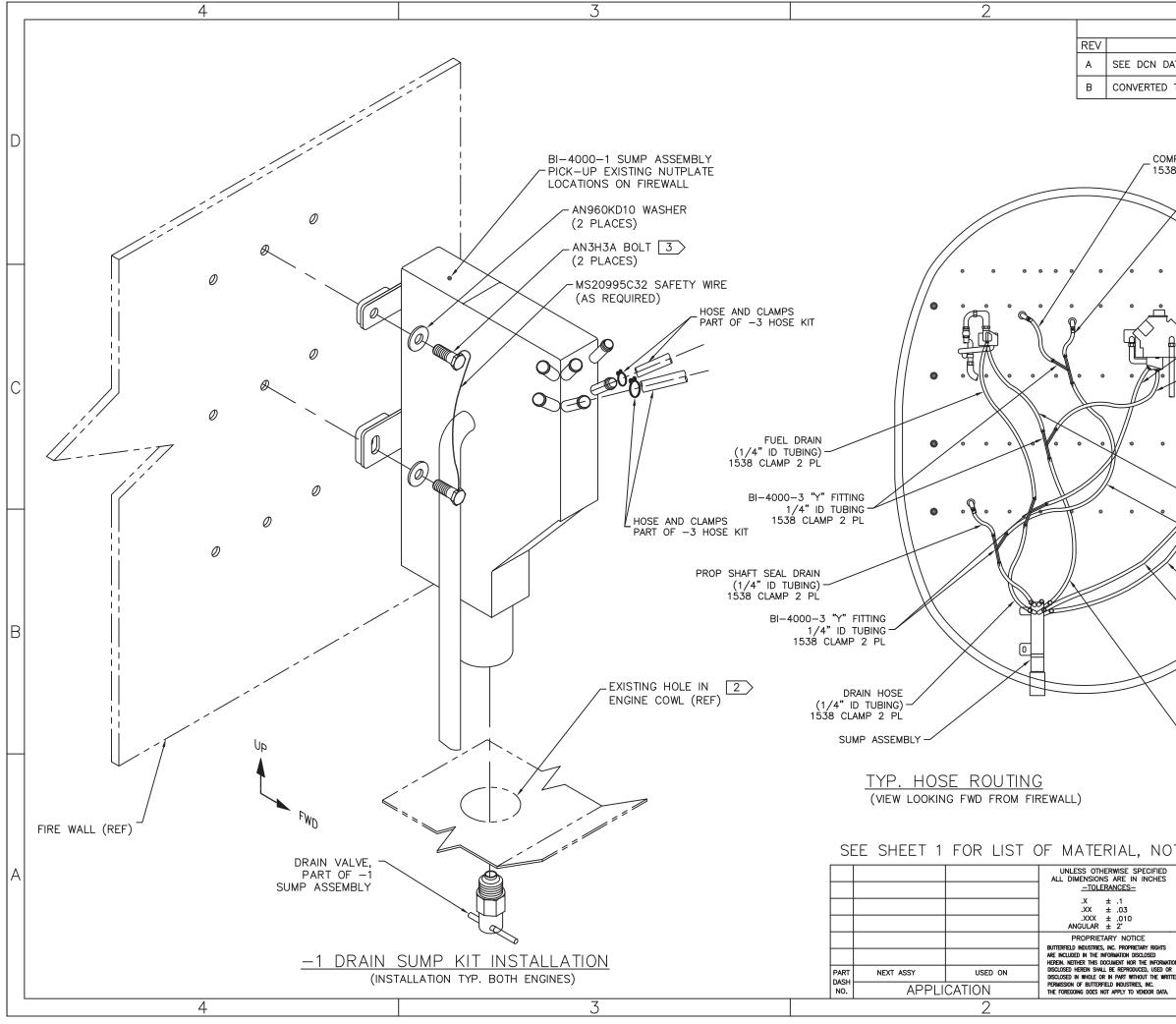
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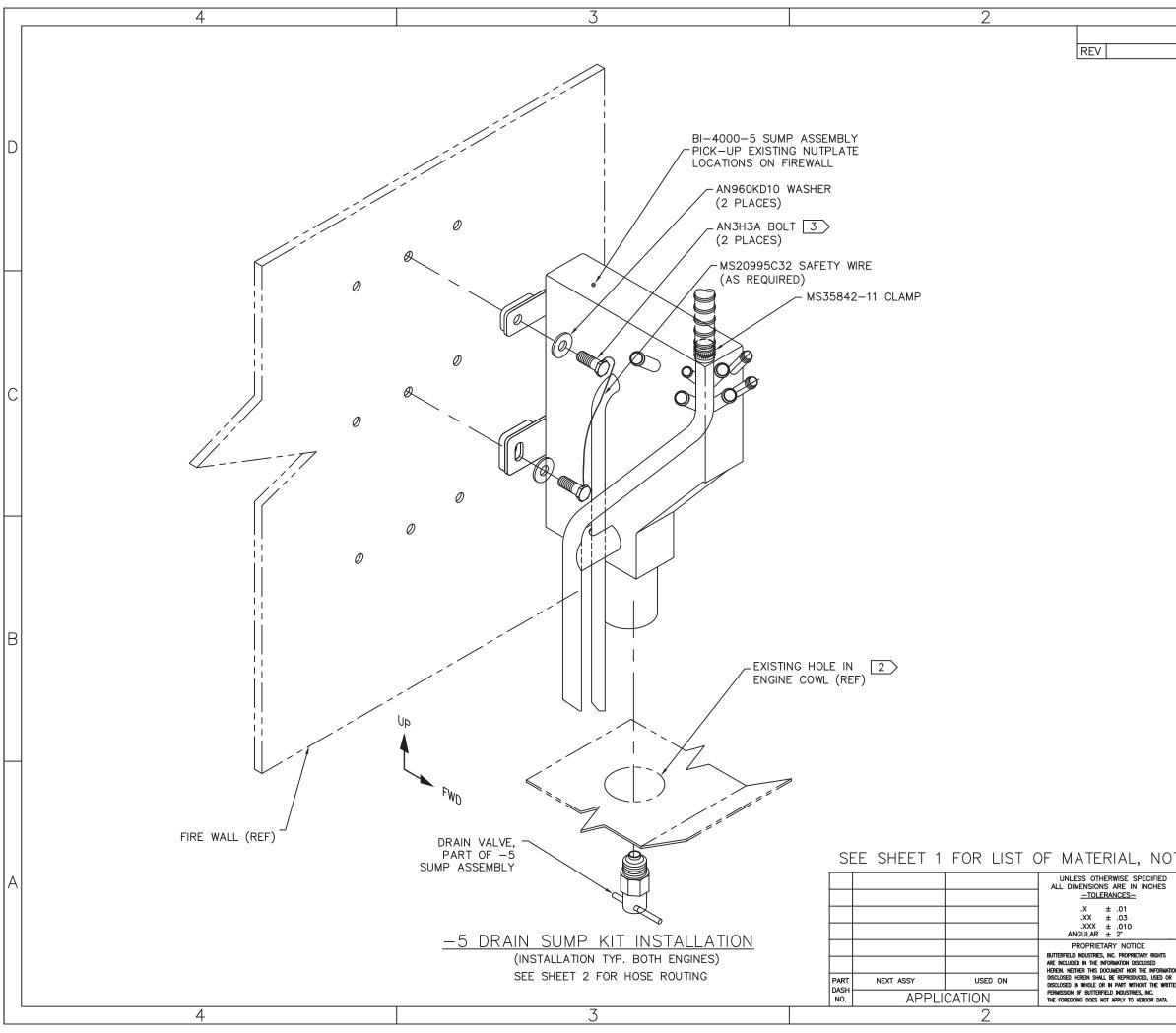
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MPRESSOR DRIVE DRAIN (1/4" ID TUBING) 38 CLAMP 2 PL 1/4" ID TUBING 1538 CLAMP 2 PL			D
FUEL DRAIN (1/4" ID TU 1538 CLAMP 2 PL ENGINE FUEL CON (1/4' ID TUBING)	ITROL VALVE		С
FUEL BOOST PUMP DRAIN 1538 CLAMP 2 PL FUEL DRAIN & STARTER (1/4" ID TUBING) 1538 CLAMP 2 PL FWD COMBUSTION CHAM (3/8" ID TUBING) MS35842-10 CLAMP 2 AFT COMBUSTION CHAME (3/8" ID TUBING) MS35842-10 CLAMP 2	/GENERATOR IBER DRAIN PL 4 BER DRAIN		В
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INSTRUCTIONS FOR CONTINUED AIRWOTHINESS

THERE ARE NO SCHEDULED INSPECTION PERIODS FOR ANY COMPONENT OF THE BUTTERFIELD INDUSTRIES 'OIL RESIDUE COLLECTION SYSTEM'.

USE THE FOLLOWING GUIDELINES FOR SUCCESSFUL CONTINUED AIRWORTHINESS.

ANT TIME THE COWLING IS OPEN FOR INSPECTION, THE OIL RESIDUE TANK SHOULD BE INSPECTED FOR CONDITION AND SECURITY.

ALL HOSE CLAMPS TO THE TANK SHOULD BE INSPECTED FOR CONDITION AND SECURITY.

THE TANK SHOULD BE DRAINED ON A PERIODIC BASIS.

IF THE TANK IS NOT DRAINED, THE RESIDUE OIL WILL DRAIN FROM THE OVERFLOW TUBE.

03/01/11 REV: N/C

DRAWING NUMBER BI 8025 REV. N/C

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