

Trans-Cal Industries, Inc.

ADAPTER PLATE (ACK) Part Number 103059 Installation Instructions

Overview

Trans-Cal Industries Adapter Plate part number 103059 allows the avionics technician to quickly replace existing ACK altitude encoder installations in favor of Trans-Cal's SSD120-(XX)N(X)-(X) or Model SSD120-(XX)C-(X). This adapter simplifies the mechanical installation task by providing a mounting plate designed for the SSD120 series altitude digitizer, while utilizing the existing ACK mounting tray. The adapter plate is manufactured from .062" thick aluminum with a chem-film treatment to inhibit corrosion. The adapter is shipped with stainless steel fastening hardware to secure the digitizer to the plate.

Equipment Limitations

The SSD120-(XX) Series Altitude Digitizer, and adapter plate part number 103059 are approved under TSO-C88a and ETSO-C88a. The conditions and tests for TSO approval are minimum performance standards. It is the responsibility of the installer of this equipment, within a specified type or class of aircraft, to determine that the aircraft operating conditions are within TSO or ETSO standards. TSO articles must have separate approval for installation in aircraft. The adapter plate and altitude encoder are to be installed in a manner consistent with the requirements of 14CFR part 43. Good workmanship and installation practices in accordance with the instructions given in this publication are to be observed. To verify the altitude digitizer has been properly installed, the installer should perform a visual inspection and conduct an overall operational check of the system prior to flight.

Continued Airworthiness

During the required biennial inspection of the transponder, altitude digitizer and pitot-static system the adapter plate should be visually inspected to verify it is securely holding the altitude digitizer. No other routine maintenance is required.

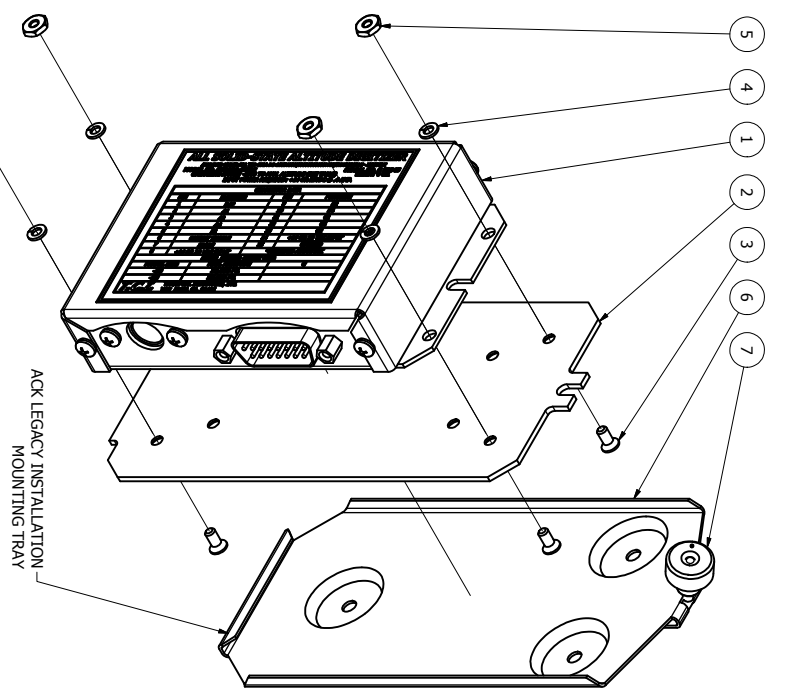
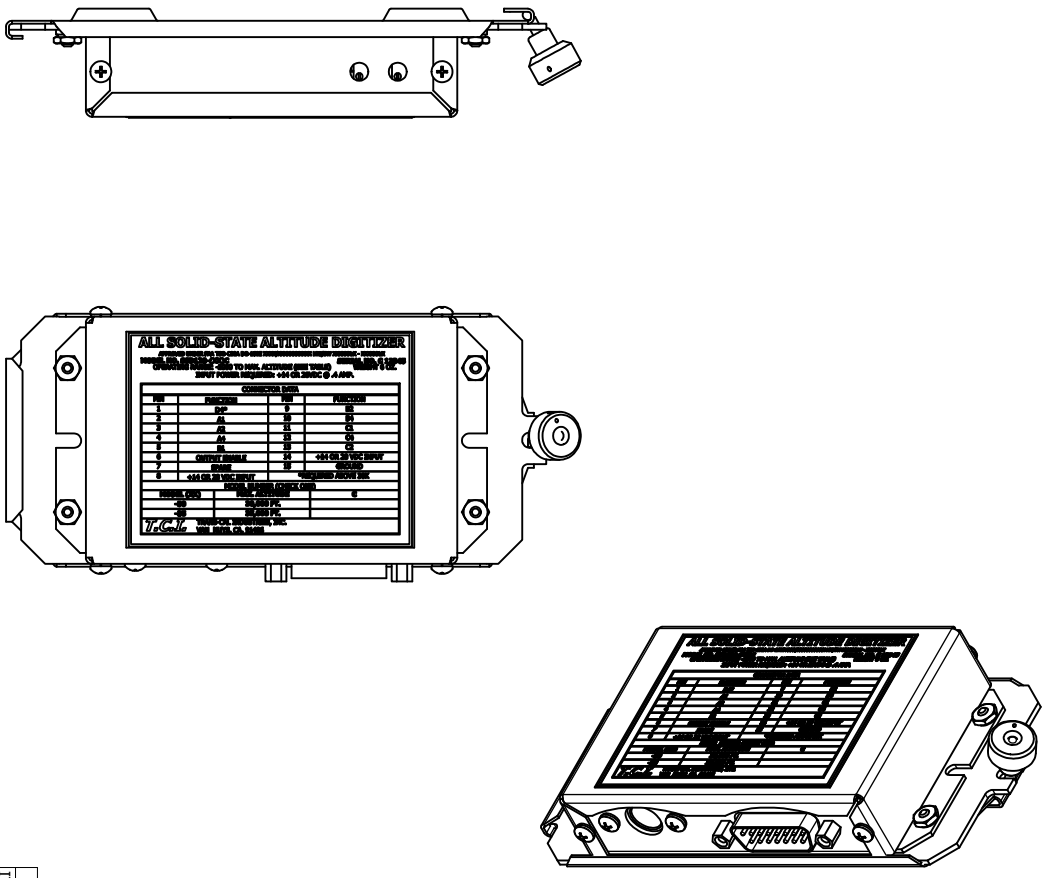
Assembly and Installation Instructions (Refer to TCI Drawing 103067 or 881629)

1. Secure the altitude digitizer (item 1) to the adapter plate (item 2) using four flat head screws, lock washers and nuts (items 3, 4 and 5) as shown on drawing 103067 or 881629.
2. Make all electrical/data and static line connections to the altitude digitizer (item 1) as per the digitizer installation instructions.
3. Place this assembly into the existing ACK mounting tray (item 7) and tighten the ACK locking knob (item 6) to secure the unit to the tray.
4. Test and verify the altitude digitizer operation as per the altitude digitizer installation manual.

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REVISION HISTORY				
ECO	REV	DESCRIPTION	DATE	APPROVED
	A	PRODUCTION RELEASE	05/26/2016	J. FERRERO



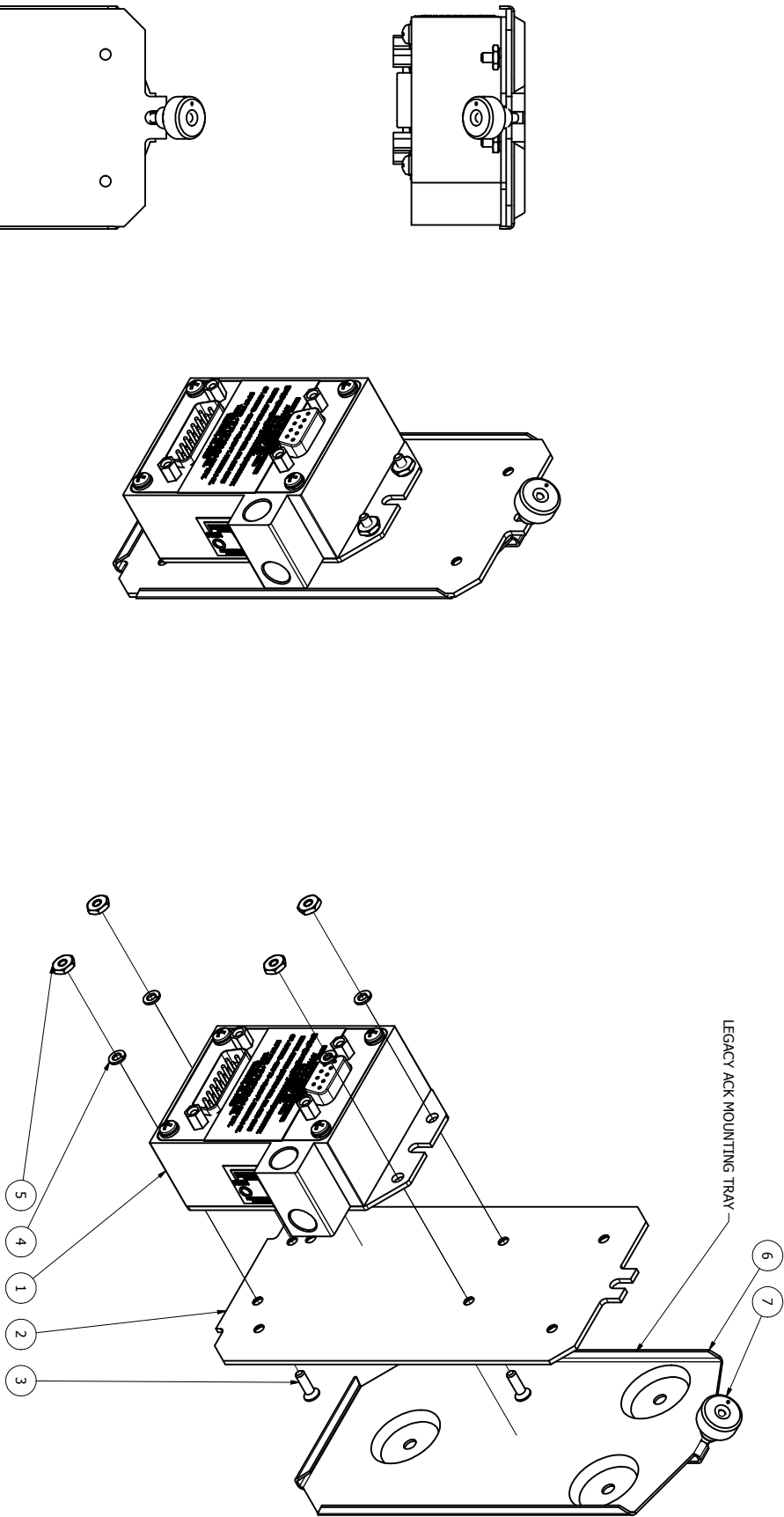
ITEM QTY	PART NUMBER	DESCRIPTION
1	SSD120-(XX)C-(X)	ALTITUDE DIGITIZER
2	1 103059	ADAPTER PLATE (ACK)
3	4 600011-3	4-40 x .375" FLAT HEAD PHILLIPS SCREW
4	4 600006-4	#4 LOCK WASHER HELICAL SPLIT RING
5	4 600025-4	#4-40 HEX MACHINE SCREW NUT
6	1 ACK TRAY	MOUNTING TRAY ASSEMBLY (ACK PART)
7	1 ACK KNOB	LOCKING KNOB (ACK PART)

PARTS LIST		TITLE	
DRAWN	H. Smith	Trans-Cal Industries, Inc. Van Nuys, CA 91406	
CHECKED	M. Remenih		
DATE	5/25/2016		
BY	J. Ferrero		
MFG	C. Herrera	ASSM., ADAPTER PLATE SSD120-(XX)C-(X) (ACK)	
APPROVED	J. Ferrero		
DATE	5/25/2016		

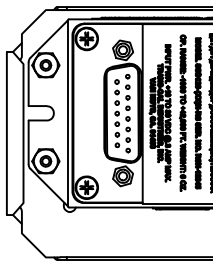
TOLERANCES, UNLESS OTHERWISE NOTED		DRAWING NO	
Decimals: ±.010	Angles ±.1°	DO NOT SCALE	881629
XXX±.005, 1		DRAWING	REV
		C	A
THIRD ANGLE PROJECTION		SCALE: 1:1	UNITS: INCH
		SHEET 1 OF 1	

NOTES:

REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED
B	REVISED ADAPTER PLATE	08/16/2015	J. FERRERO
A	PRODUCTION RELEASE	7/8/2008	J. FERRERO



ITEM QTY	PART NUMBER	DESCRIPTION
1	SSD120-(XX)N(X)-(X)	ALTTITUDE DIGITIZER
2	103059	ADAPTER PLATE (ACK)
3	600011-3	#4-40 X .375\"/>
4	600006-4	#4 LOCK WASHER HELICAL SPLIT RING
5	600025-4	#4 HEX MACHINE SCREW NUT
6	1	ACK TRAY
7	1	ACK LOCKING KNOB (ACK PART)

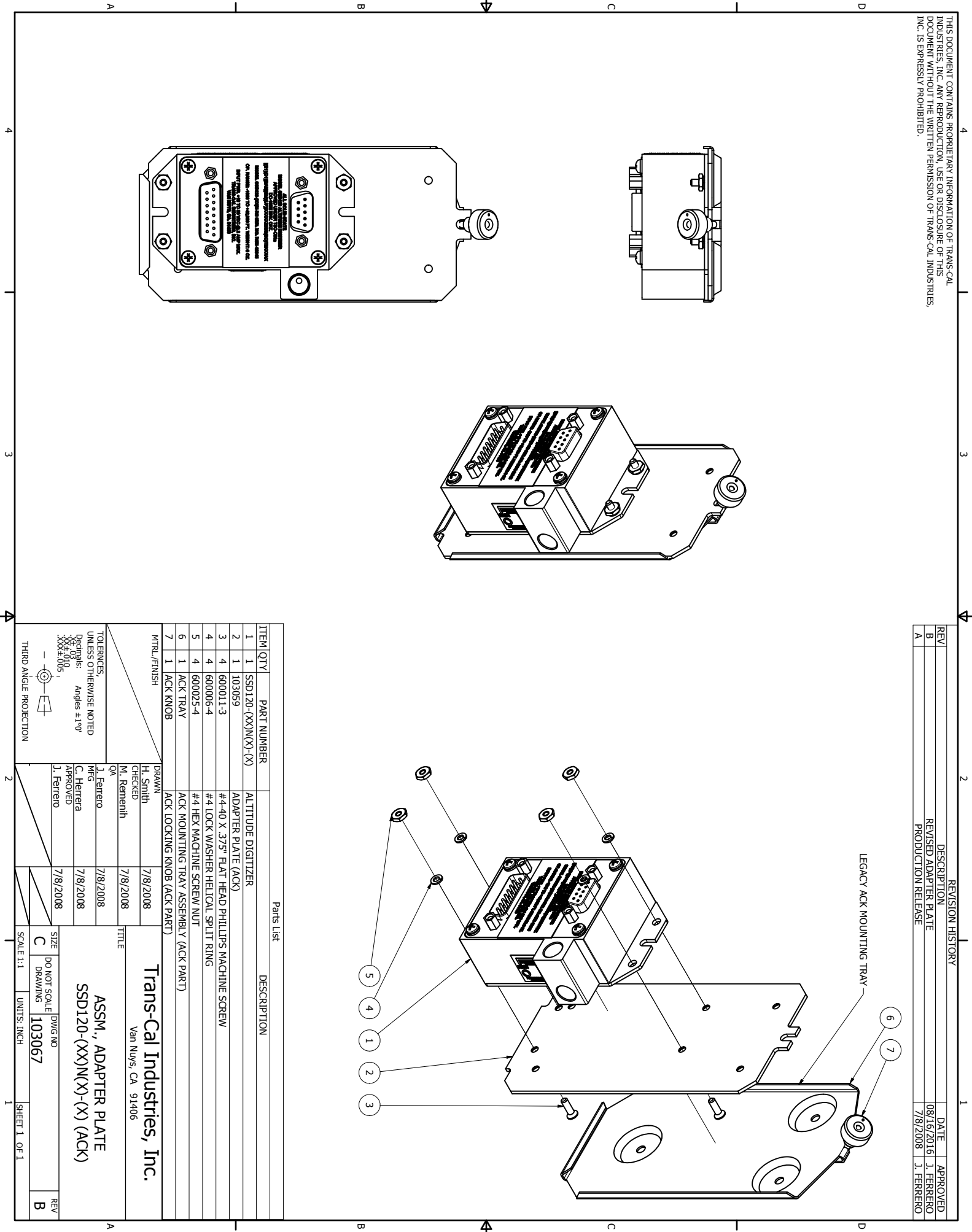


Parts List		DRAWN		TITLE	
1	SSD120-(XX)N(X)-(X)	H. Smith	7/8/2008	Trans-Cal Industries, Inc.	
2	103059	Checked	7/8/2008	Van Nuys, CA 91406	
3	600011-3	QA			
4	600006-4	Mfg	7/8/2008		
5	600025-4	C. Herrera	7/8/2008		
6	1	APPROVED			
7	1	J. Ferrero	7/8/2008		

TOLERANCES, UNLESS OTHERWISE NOTED
 Decimale: Angles ±1°φ
 .005 ±.005
 .010 ±.010
 .020 ±.020
 .050 ±.005
 THIRD ANGLE PROJECTION

SCALE: 1:1	UNITS: INCH	SHEET 1 OF 1
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SIZE: DO NOT SCALE	DWG NO: 103067	REV: B
DRAWING: C		



ADAPTER PLATE
(ACK) TEMPLATE

