PROPRIETARY NOTICE
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REVISION HISTORY

REV	DESCRIPTION	DATE	APPROVED
-	INITIAL RELEASE	-	SEE BELOW
B	SH 2: UPDATED BOM. SH 5: UPDATED SENDER LOCATIONS.	5/12/2026	APPROVED: A FACKRELL
C	ADDED METHOD FOR UPGRADED ACCESS PANEL INSTALLATION, SHEET 6.	8/18/2026	DRAWN: R CROGHAN CHECKED: APPROVED:

NOTES:

1. CUT FOAM (ITEM NO. 32) AS SHOWN ON SHT 4 FOR CLEARANCE OF BRACKET (ITEM NO. 14). RESEAL CUT EDGE WITH SEALANT NOT INCLUDED WITH KIT.*
2. ATTACH BRACKET (ITEM NO. 14) TO ACCESS PANEL (ITEM NO. 31) USING 3 RIVETS (ITEM NO. 21) AND SEALANT. IF ACCESS PANEL ONLY HAS 2 HOLES DRILL AND COUNTER SINK A THIRD FOR MOUNTING.*
3. MOUNT FUEL SENDER ASSEMBLY (ITEM NO. 11, 12 OR 13) TO BRACKET (ITEM NO. 14) USING BOLT (ITEM NO. 23), STOP NUT (ITEM NO. 24), AND WASHER (ITEM NO. 22) AS SHOWN ON SHTS 3 & 4.
4) SEE DRAWING NO. CC2840990801 OR 0802 FOR WIRING INSTRUCTIONS AND USE OF RESISTOR (ITEM NO. 25).
5) REFER TO AIRCRAFT MAINTENANCE MANUAL TO REMOVE AND REPLACE FUEL TANK ACCESS PANELS.
6) WIRES IN TANK MAY NEED TO BE REROUTED TO NOT INTERFERE WITH FLOAT ARM FUNCTION.
7) CAP AND STOW UNUSED WIRES ON FUEL SENDER ASSEMBLIES.
8) BOM ITEMS 21-24 NOT INCLUDED WITH KIT.

* IF THE AIRCRAFT HAS UPGRADED ACCESS PANELS WITH NO FOAM USE THE UPGRADED ACCESS PANEL INSTALLATION METHOD DETAILED ON SHEET 6.

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UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE:
DECIMALS .X±.10 .XX±.03 .XXX±.010 ANGLES ±.5°
DO NOT SCALE DRAWING
THIRD ANGLE PROJECTION

CONTRACT NO.

APPROVALS	DATE
DRAWN A FACKRELL	10/20/2023
CHECKED R CROGHAN	4/25/2024
ENGINEER A FACKRELL	4/25/2024
APPROVED R CROGHAN	4/25/2024

CIES INC
63049 LOWER MEADOW DR
BEND, OR 97701

TITLE
INSTALLATION DETAILS - PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE NONE APPROVED AUG 18 2026 SHEET 1 OF 6

QTY	PART NUMBER	DESCRIPTION	MATERIAL/SPECIFICATON	WEIGHT	ZONE	ITEM
		PARTS LIST				
-	CD2840330802-101	INSTALLATION ASSEMBLY			SH 3	1
-	CD2840330802-103	UPGRADED ACCESS PANEL ASSEMBLY			SH 6	
2	CD2840220832-1P3	FUEL SENDER ASSEMBLY MIDSPAN				11
2	CD2840220831-1P3	FUEL SENDER ASSEMBLY INBD				12
2	CD2840220832-1P1	FUEL SENDER ASSEMBLY OUTBD				13
6	CD2840450821-001	MOUNTING BRACKET				14
18	MS20426AD-3-5	RIVET				21
30	AN960-10	WASHER				22
30	AN3-4A	BOLT				23
30	AN363-1032	STOP NUT				24
4	MS313-135-1%	RESISTOR				25
	N/A	ACCESS PANEL				31
	N/A	CLOSED CELL FOAM				32

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63049 LOWER MEADOW DR
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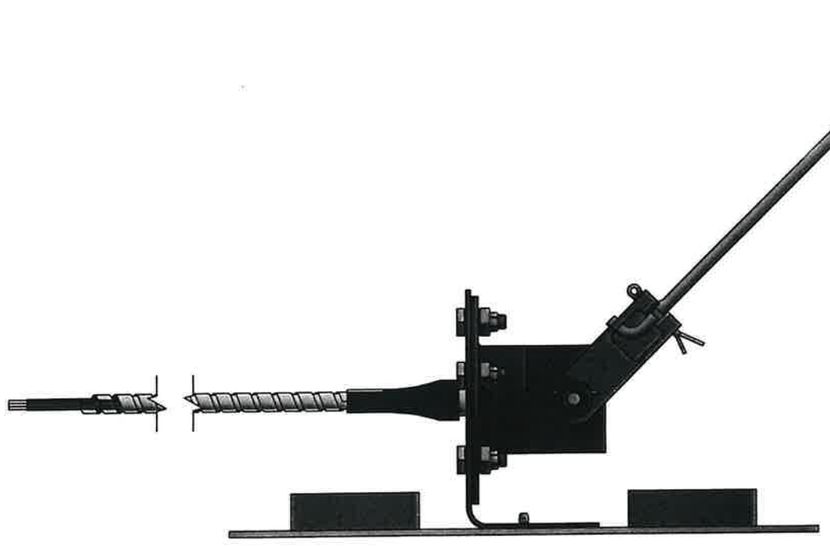
INC

TITLE

INSTALLATION DETAILS - PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE NONE | APPROVED AUG 18 2026 | SHEET 2 OF 6



ISOMETRIC VIEW

FOR REF ONLY

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-101 INSTALLATION ASSEMBLY

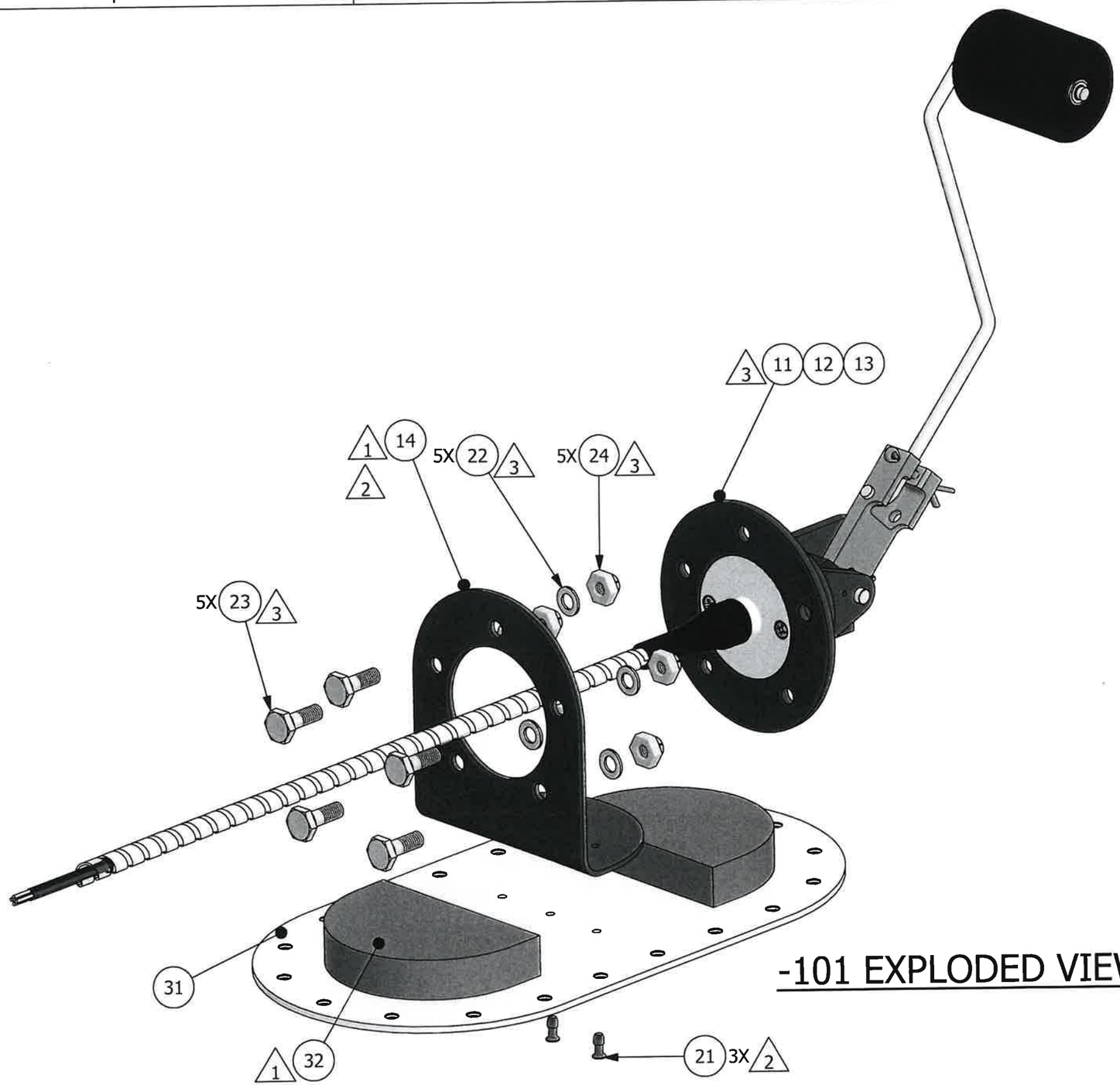
CIES INC
63049 LOWER MEADOW DR
BEND, OR 97701

TITLE

INSTALLATION DETAILS -
PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE 1 / 2 APPROVED AUG 18 2026 SHEET 3 OF 6



-101 EXPLODED VIEW

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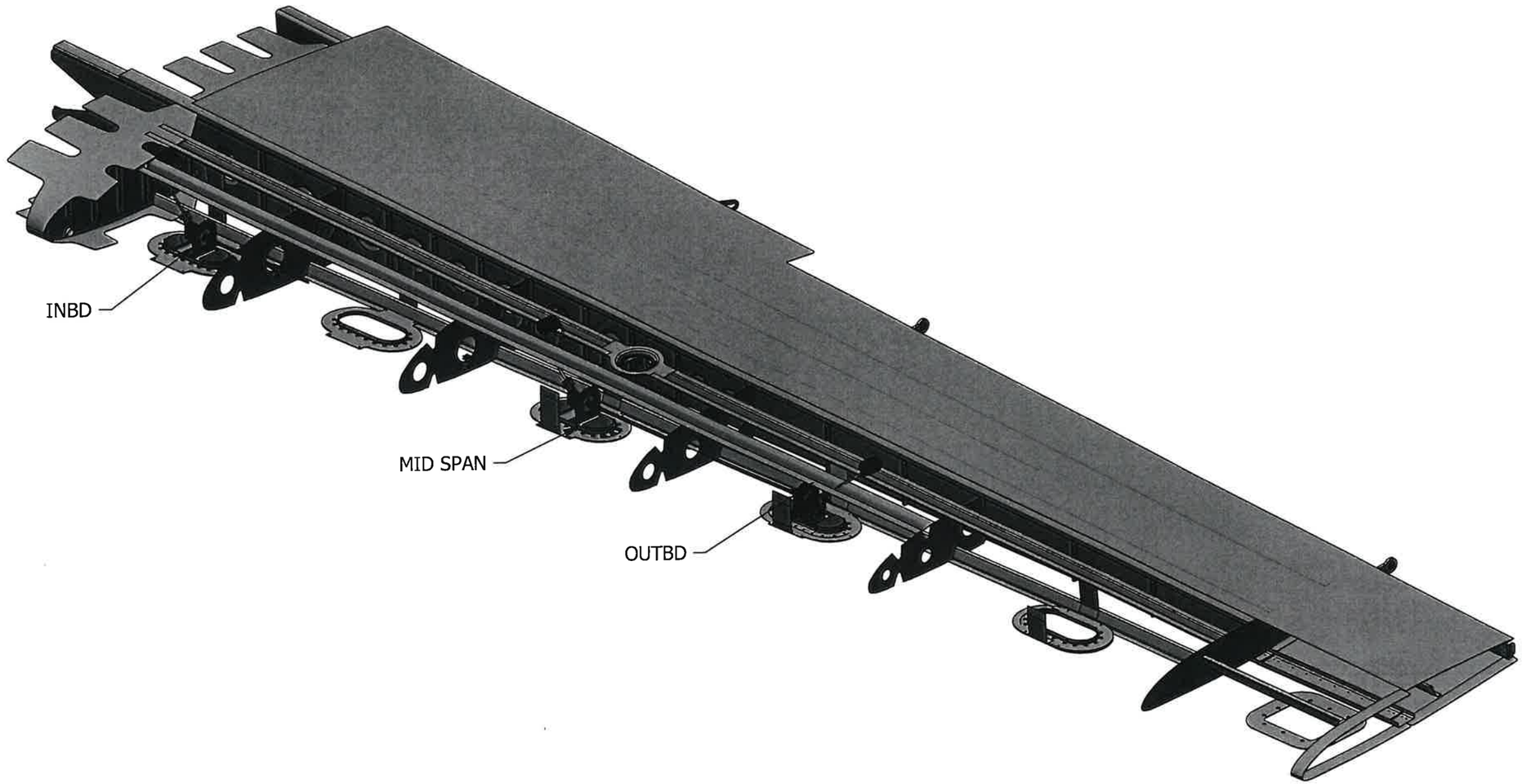
CIES INC
63049 LOWER MEADOW DR
BEND, OR 97701

TITLE
INSTALLATION DETAILS - PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE 3 / 4 APPROVED AUG 18 2026 SHEET 4 OF 6



FUEL SENDER LOCATIONS

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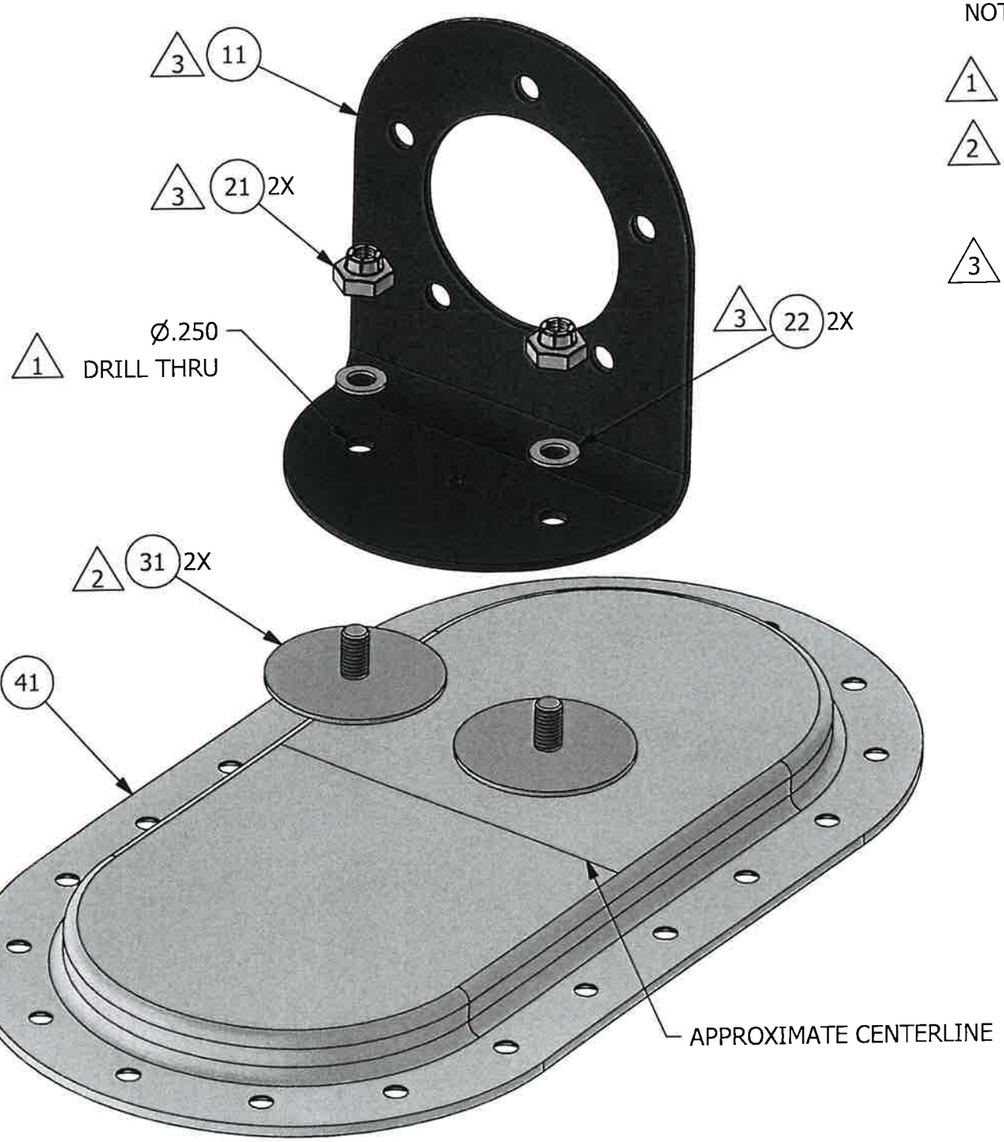
TITLE
INSTALLATION DETAILS -
PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE NONE | APPROVED AUG 18 2026 | SHEET 5 OF 6



NOTES:

1. DRILL OUT OUTER 2 MOUNTING HOLES TO Ø 0.25".
2. USING MANUFACTURER'S INSTRUCTIONS BOND ADHESIVE STUDS (ITEM NO. 31) TO ACCESS PANEL ALONG THE APPROXIMATE CENTERLINE. THE BRACKET (ITEM NO. 11) MAY BE USED AS A TEMPLATE TO ESTABLISH CORRECT STUD SPACING.
3. SECURE BRACKET (ITEM NO. 11) TO PANEL USING WASHER (ITEM NO. 22) & STOP NUT (ITEM NO. 21).

PARTS LIST

QTY	PART NUMBER	DESCRIPTION	MATERIAL/SPECIFICATON	WEIGHT	ZONE	ITEM
1	N/A	ACCESS PANEL NEW				41
2	CB3000AA3-6	ADHESIVE STUD	CLICK BOND			31
2	AN960-3	WASHER	(#10)			22
2	AN363-1032	STOP NUT	(10-32)			21
1	CD2840450821-001	MOUNTING BRACKET				11
-	CD2840330802-103	UPGRADED ACCESS PANEL ASSEMBLY			SH 6	1

-103 UPGRADED ACCESS PANEL INSTALLATION

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BEND, OR 97701

TITLE
INSTALLATION DETAILS - PIPER PA46

SIZE	CAGE CODE	DWG NO.	REV.
B	66YY1	CD2840330802	C

SCALE 1 : 1 APPROVED AUG 18 2026 SHEET 6 OF 6