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Technical Bulletin Bracket Installation

Bell 212

TB-E212-725-9

Revision B

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Technical Bulletin
Bracket Installation
Bell 212

TB-E212-725-9
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Revision Record

Rev	Date	Description of Revision
A	2021-09-17	Initial Release.
B	See Cover Page	Added "QTY -041" column to Parts list. Updated -103 Weight and Balance. Added Step 6 to Section 3.2. Added Step 2 to Section 3.4. Updated Figures 3-8.

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1. Introduction

1.1. Approval

This Technical Bulletin is approved data in accordance with the following STC:

TCCA STC: SH07-28

FAA STC: SR02831NY

1.2. Purpose

To provide instructions for the Installation of the Miscellaneous Brackets.

The purpose of each kit is listed below:

TB-E212-725-9-101 HEADSET BRACKET INSTALLATION

TB-E212-725-9-103 CONNECTORS BRACKET INSTALLATION

TB-E212-725-9-105 TERMINAL BLOCKS INSTALLATION

TB-E212-725-9-107 CONNECTORS BRACKET INSTALLATION

1.3. Effectivity

MSN
All

1.4. Compliance

Optional.

1.5. Description

This Technical Bulletin (TB) provides the information required for the installation of the Miscellaneous Brackets.

2. Installation Data

2.1. Parts List

ITEM	QTY -101	QTY -103	QTY -105	QTY -107	QTY -041	PART NUMBER	DESCRIPTION
1	2					TB-E212-725-9-001	BRACKET
2	4	4		2		MS27039-08	SCREW (LENGTH AS REQUIRED)
3	4	4		2	8	AN960JD8	WASHER
4	4					MS21059-08	NUTPLATE
5	8				16	MS20426AD3	RIVET (LENGTH AS REQUIRED)
6		1				TB-E212-725-9-041	MISCELLANEOUS BRACKET ASSY
7		4		2		NAS1836-08-12	INSERTS
8					1	TB-E212-725-9-003	BRACKET
9					2	TB-E212-725-9-005	BRACKET
10					1	TB-E212-725-9-007	BRACKET
11					4	TB-E212-725-9-009	BRACKET
12			4		16	MS20426AD4	RIVET (LENGTH AS REQUIRED)
13					8	MS21069-04	NUTPLATE
14				1		TB-E212-725-9-011	BRACKET
15					8	MS27039-4	SCREW (LENGTH AS REQUIRED)
16					16	MS20470AD4	RIVET (LENGTH AS REQUIRED)

Table 1 – Parts List

2.2. Weight and Balance

Item	Weight	Lateral		Longitudinal	
		Arm	Moment	Arm	Moment
E212-725-9-101 HEADSET BRACKET INSTL	0.1 lb 0.045kg	0 in 0 m	0.00 in-lb 0.00 m-kg	64.75 in 1.64 m	6.47 in-lb 0.07 m-kg
E212-725-9-103 CONNECTORS BRACKET INSTL	0.5 lb 0.227 kg	0 in 0 m	0.00 in-lb 0.00 m-kg	18.00 in 0.46 m	9.00 in-lb 0.10 m-kg
E212-725-9-105 TERMINAL BLOCKS INSTL	0.1 lb 0.045 kg	15.0 in 0.38 m	1.50 in-lb 0.02 m-kg	63.38 in 1.61 m	6.34 in-lb 0.07 m-kg
E212-725-9-107 CONNECTORS BRACKET INSTL	0.1 lb 0.045 kg	9.77 in 0.25 m	0.97 in-lb 0.01 m-kg	18.85 in 0.49 m	1.88 in-lb 0.02 m-kg

Table 2 – Weight and Balance

2.3. Electrical Loads

The implementation of this technical bulletin has no effect on aircraft electrical loads.

3. Installation Procedure

3.1. Procedure for -101 Kit Installation

1. Manufacture two (2) of the Brackets (PN TB-E212-725-9-001) as shown in Figure 1.
2. Install the Brackets (PN TB-E212-725-9-001) in accordance with Figure 2.

3.2. Procedure for -103 Kit Installation

1. Manufacture the Bracket (PN TB-E212-725-9-003) as shown in Figure 3.
2. Manufacture two (2) of the Brackets (PN TB-E212-725-9-005) as shown in Figure 4.
3. Manufacture the Bracket (PN TB-E212-725-9-007) as shown in Figure 5.
4. Manufacture four (4) of the Brackets (PN TB-E212-725-9-009) as shown in Figure 6.
5. Assemble the Miscellaneous Bracket (PN TB-E212-725-9-041) as shown on Figure 7.

NOTE: Match drill Ø 0.129 rivet holes from PN TB-E212-725-9-009 to PN TB-E212-725-9-003, two (2) of PN TB-E212-725-9-005 and PN TB-E212-725-9-007.

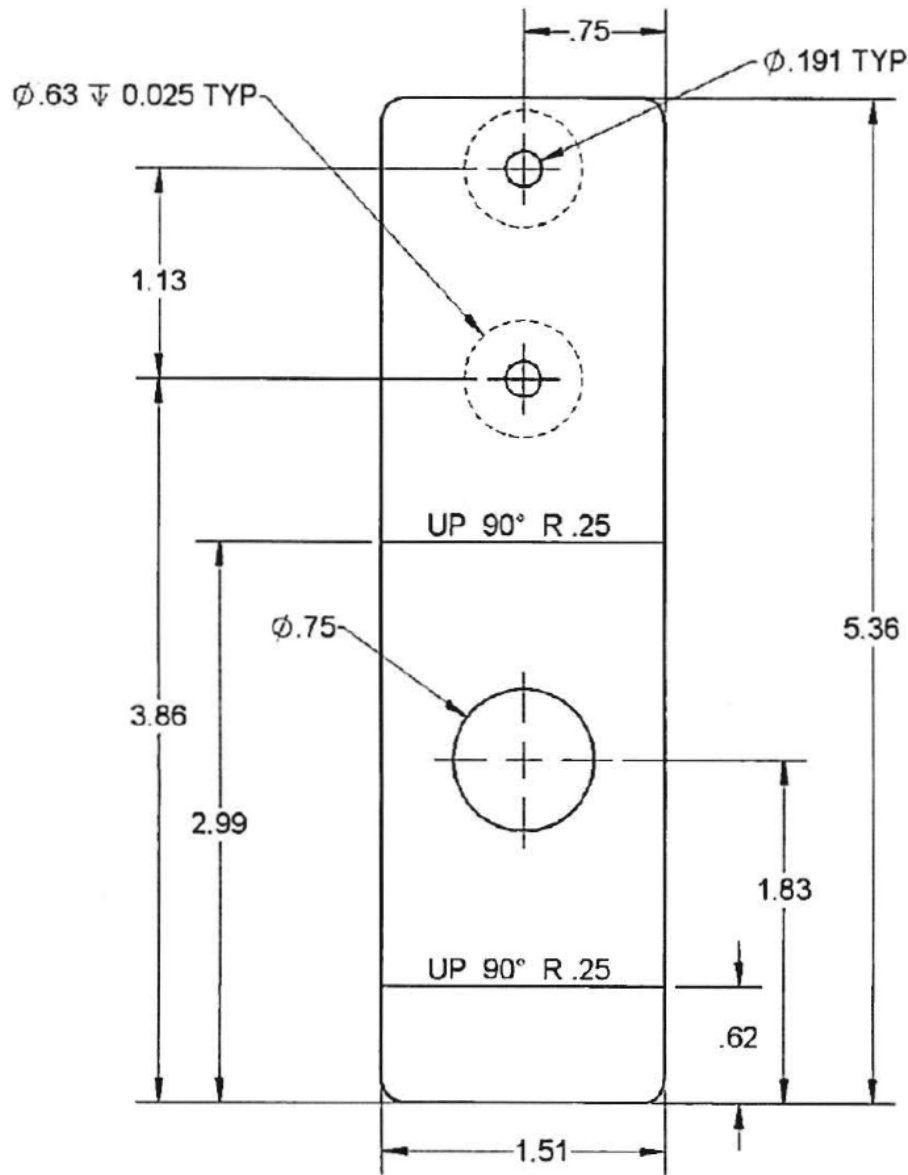
6. Inserts to be installed in accordance with BHT-ALL-SRM 3-2-12 Application D.
7. Install the Miscellaneous Bracket (PN TB-E212-725-9-041) in accordance with Figure 8.

3.3. Procedure for -105 Kit Installation

1. Install the Terminal Blocks (PN CT J-3D-04 and CT J-3D-05) inside the red box area in accordance with Figure 9.

3.4. Procedure for -107 Kit Installation

1. Manufacture the Bracket (PN E212-725-9-011) as shown in Figure 10.
2. Inserts to be installed in accordance with BHT-ALL-SRM 3-2-12 Application D.
3. Install the Bracket (PN E212-725-9-011) in accordance with Figure 11.



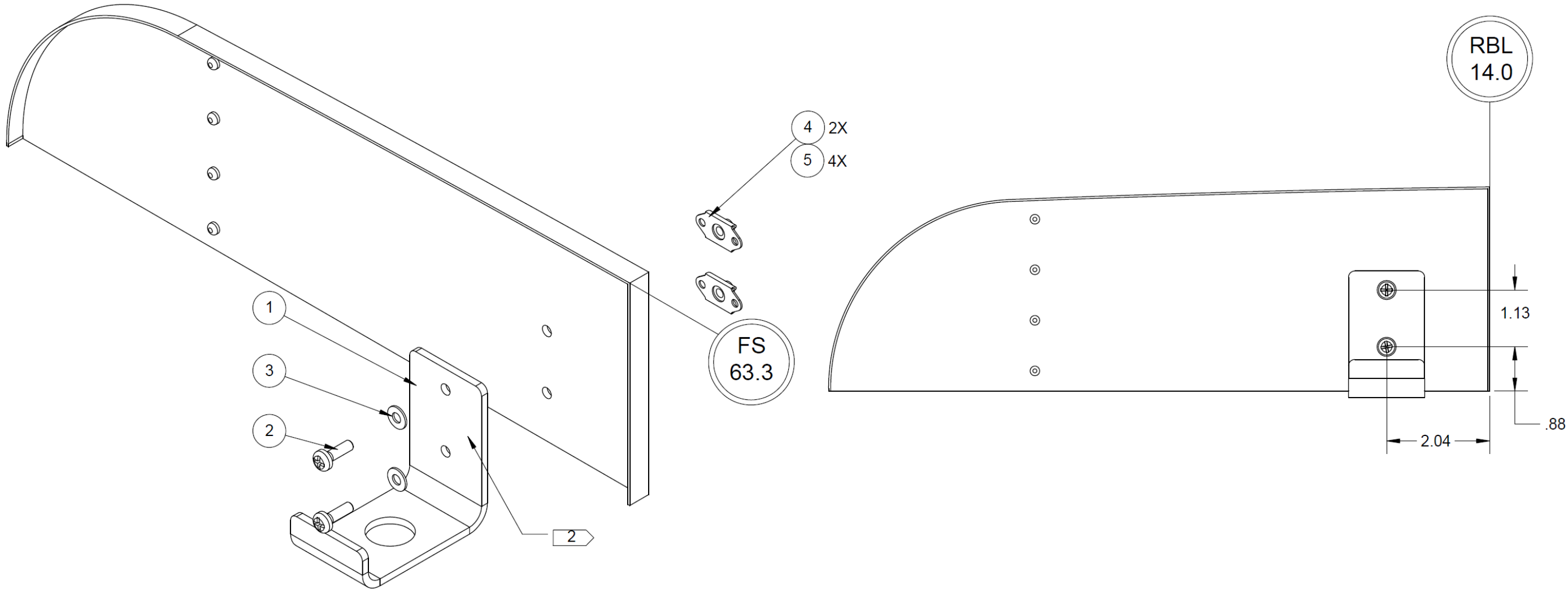
TB-E212-725-9-001 FP BRACKET

NOTES:

1. MATERIAL: 0.050" 2024-T3 PER AMS-QQ-A-250/4
2. FINISH: ALODINE PER MIL-DTL-5541F AND APPLY PRIMER PER MIL-PRF-23377K ON ALL APPLICABLE PARTS.
3. ALL MEASUREMENTS IN INCHES UNLESS INDICATED OTHERWISE.
4. TOLERANCES:
X.X $\pm$ 0.100 ANGULAR $\pm$ 1/2 °
X.XX $\pm$ 0.030
X.XXX $\pm$ 0.010
5. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS.

Figure 1 – TB-E212-725-9-001 Bracket

TB-E212-725-9-001 BRACKET
MAKE FROM TB-E212-725-9-001 FP



E212-725-9-01-7-1 CONTROLLER INSTL
EXPLODED ISO VIEW
NOT ALL STRUCTURE SHOWN FOR CLARITY

Figure 2 – TB-E212-725-9-101 Headset Bracket Installation
(RH Bracket Shown, LH Bracket Opposite)

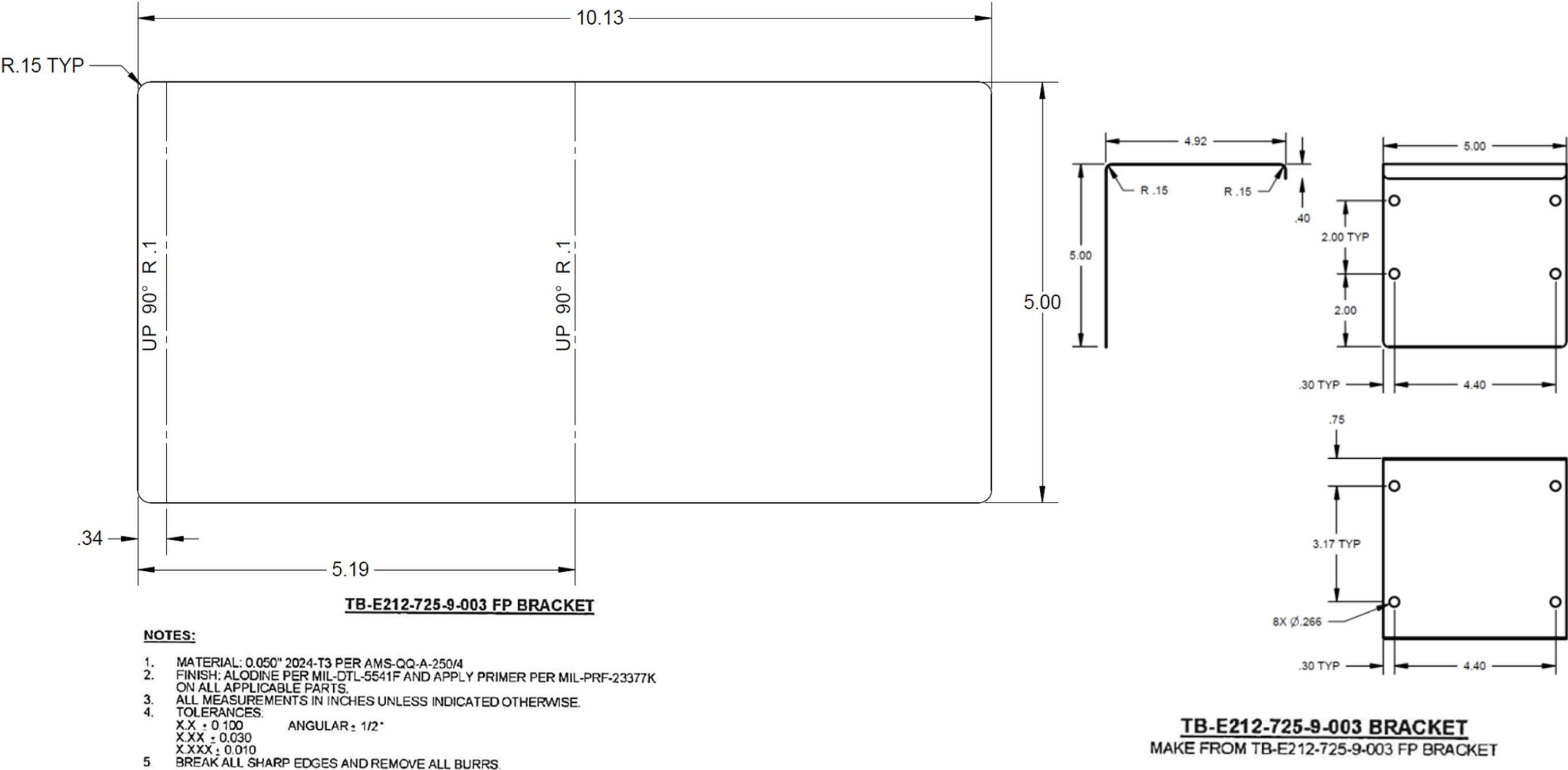
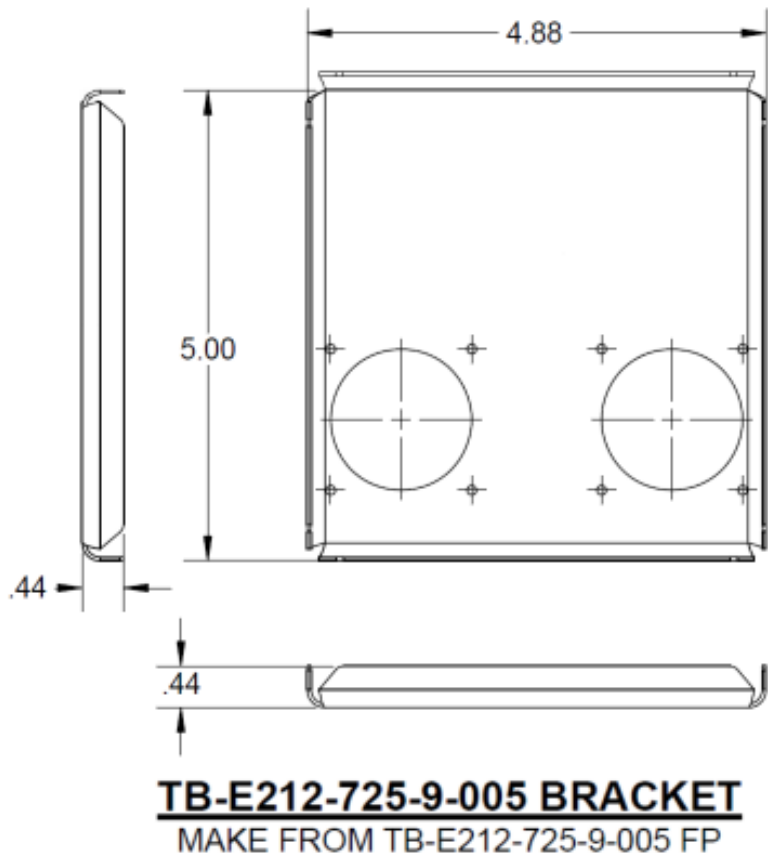
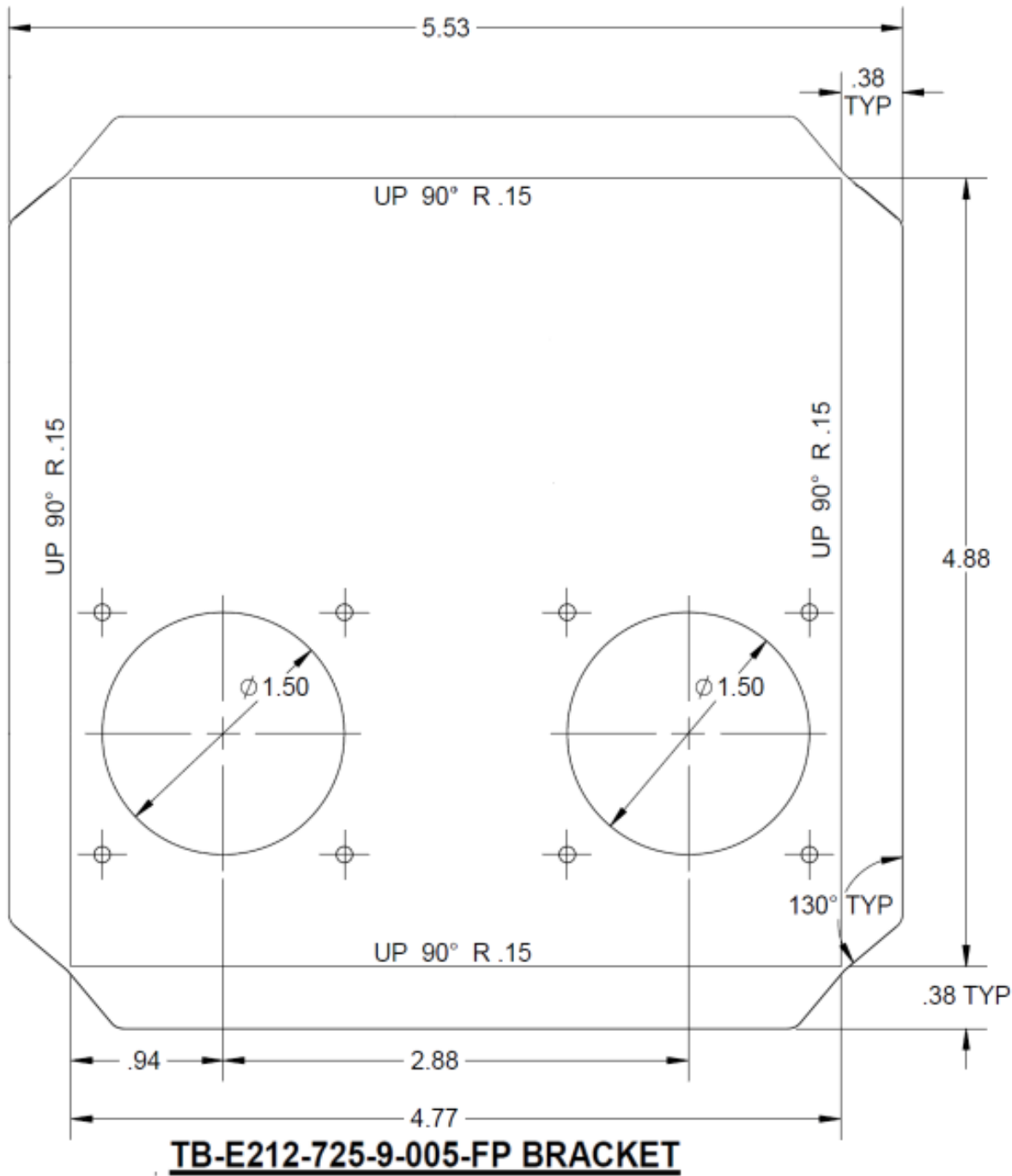


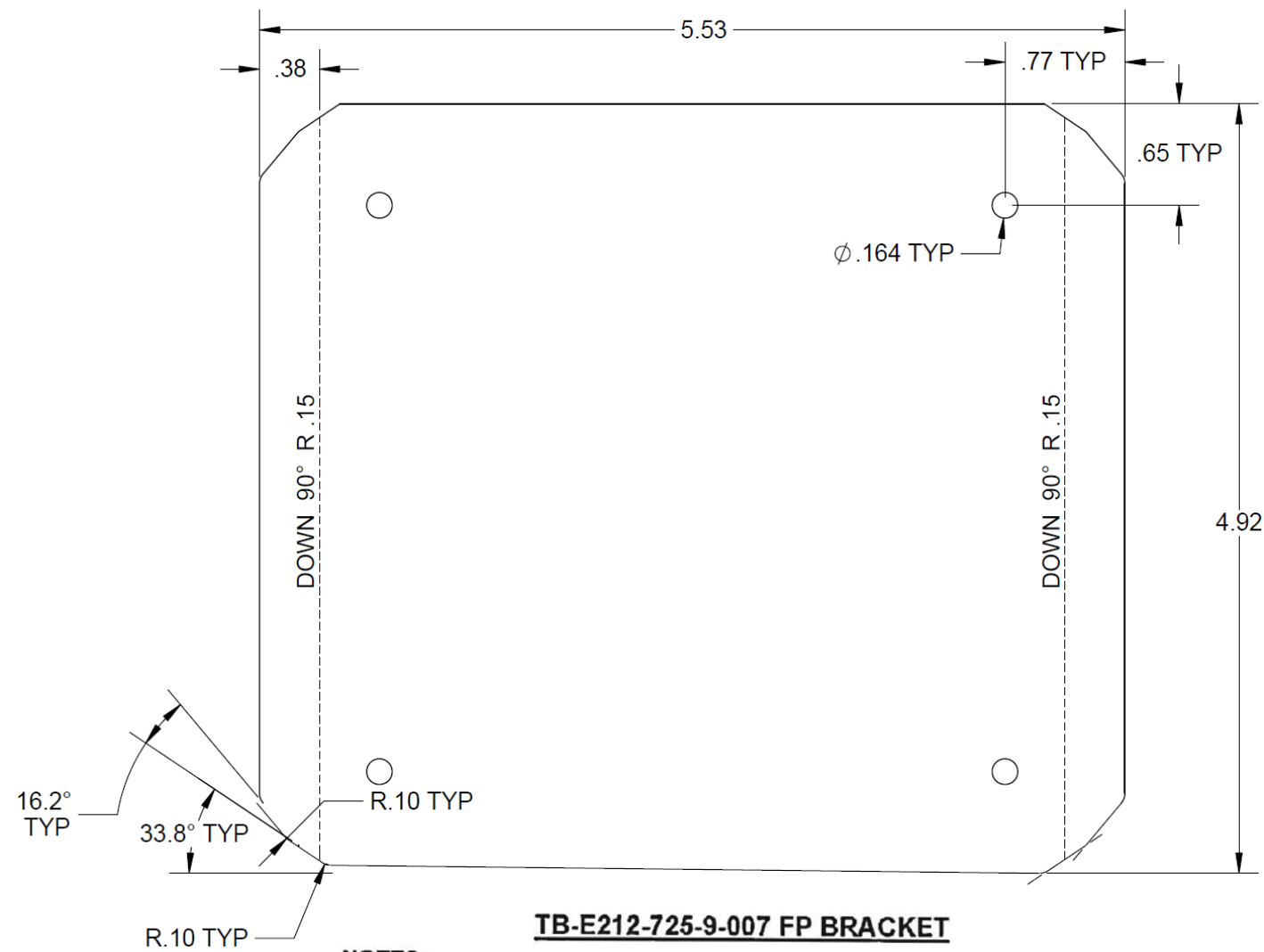
Figure 3 - TB-E212-725-9-003 Bracket



NOTES:

1. MATERIAL: 0.050" 2024-T3 PER AMS-QQ-A-250/4
2. FINISH: ALODINE PER MIL-DTL-5541F AND APPLY PRIMER PER MIL-PRF-23377K ON ALL APPLICABLE PARTS.
3. ALL MEASUREMENTS IN INCHES UNLESS INDICATED OTHERWISE.
4. TOLERANCES:
X.X ± 0.100 ANGULAR ± 1/2°
X.XX ± 0.030
X.XXX ± 0.010
5. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS.

Figure 4 - TB-E212-725-9-005 Bracket

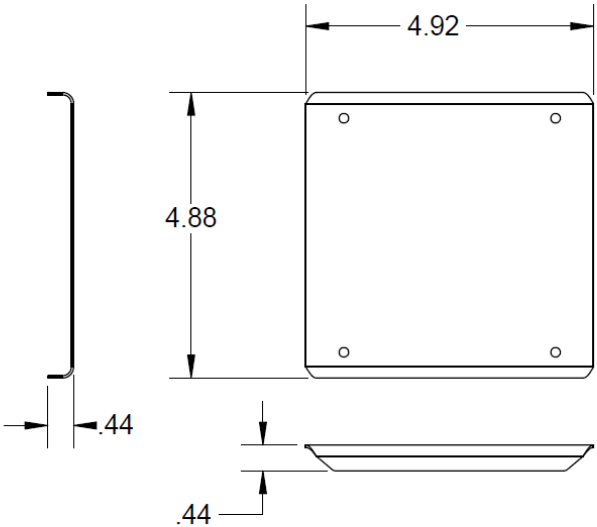


TB-E212-725-9-007 FP BRACKET

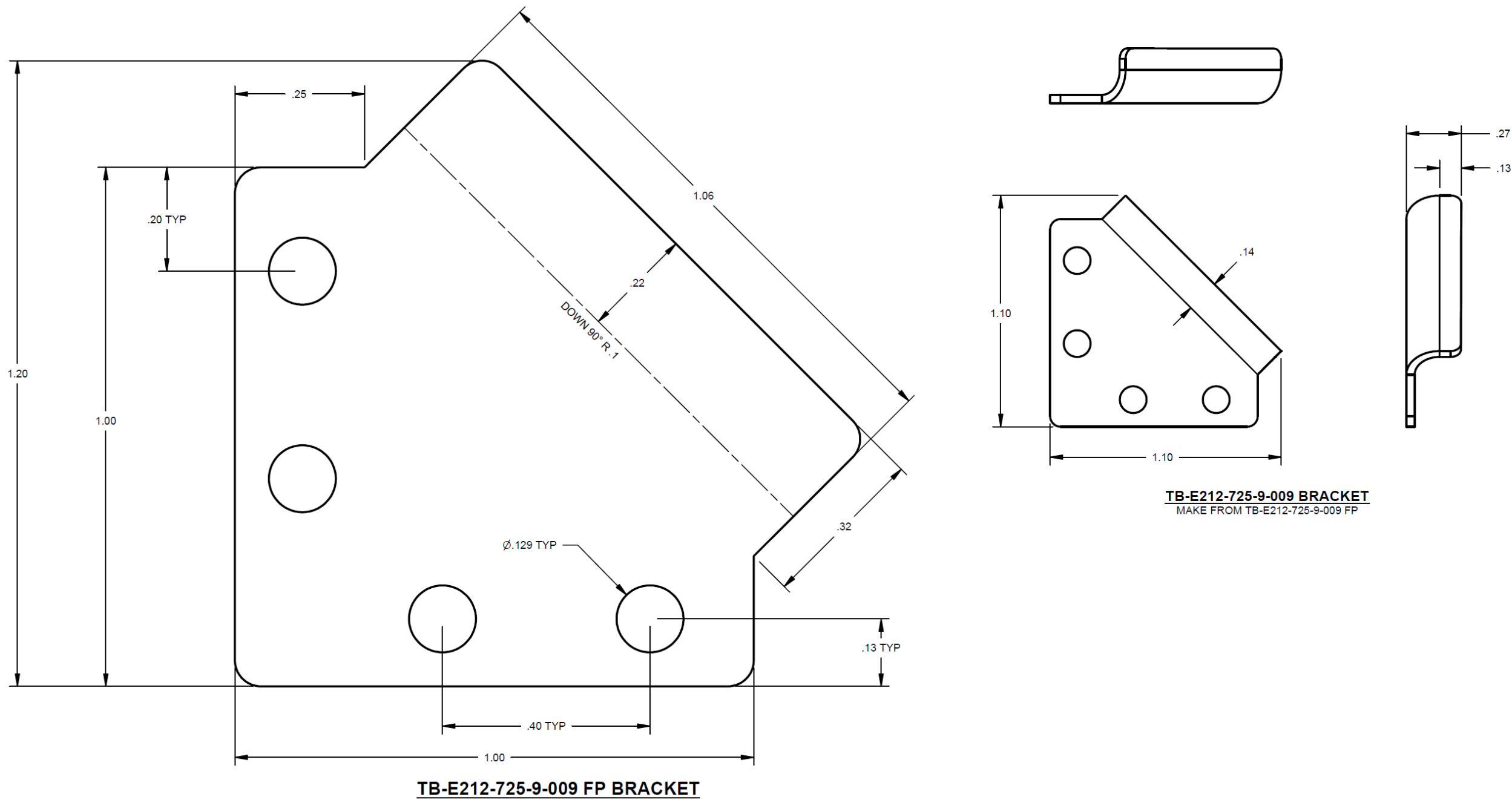
NOTES:

1. MATERIAL: 0.050" 2024-T3 PER AMS-QQ-A-250/4
2. FINISH: ALODINE PER MIL-DTL-5541F AND APPLY PRIMER PER MIL-PRF-23377K ON ALL APPLICABLE PARTS.
3. ALL MEASUREMENTS IN INCHES UNLESS INDICATED OTHERWISE.
4. TOLERANCES:
X.X $\pm$ 0.100 ANGULAR $\pm$ 1/2°
X.XX $\pm$ 0.030
X.XXX $\pm$ 0.010
5. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS.

Figure 5 - TB-E212-725-9-007 Bracket

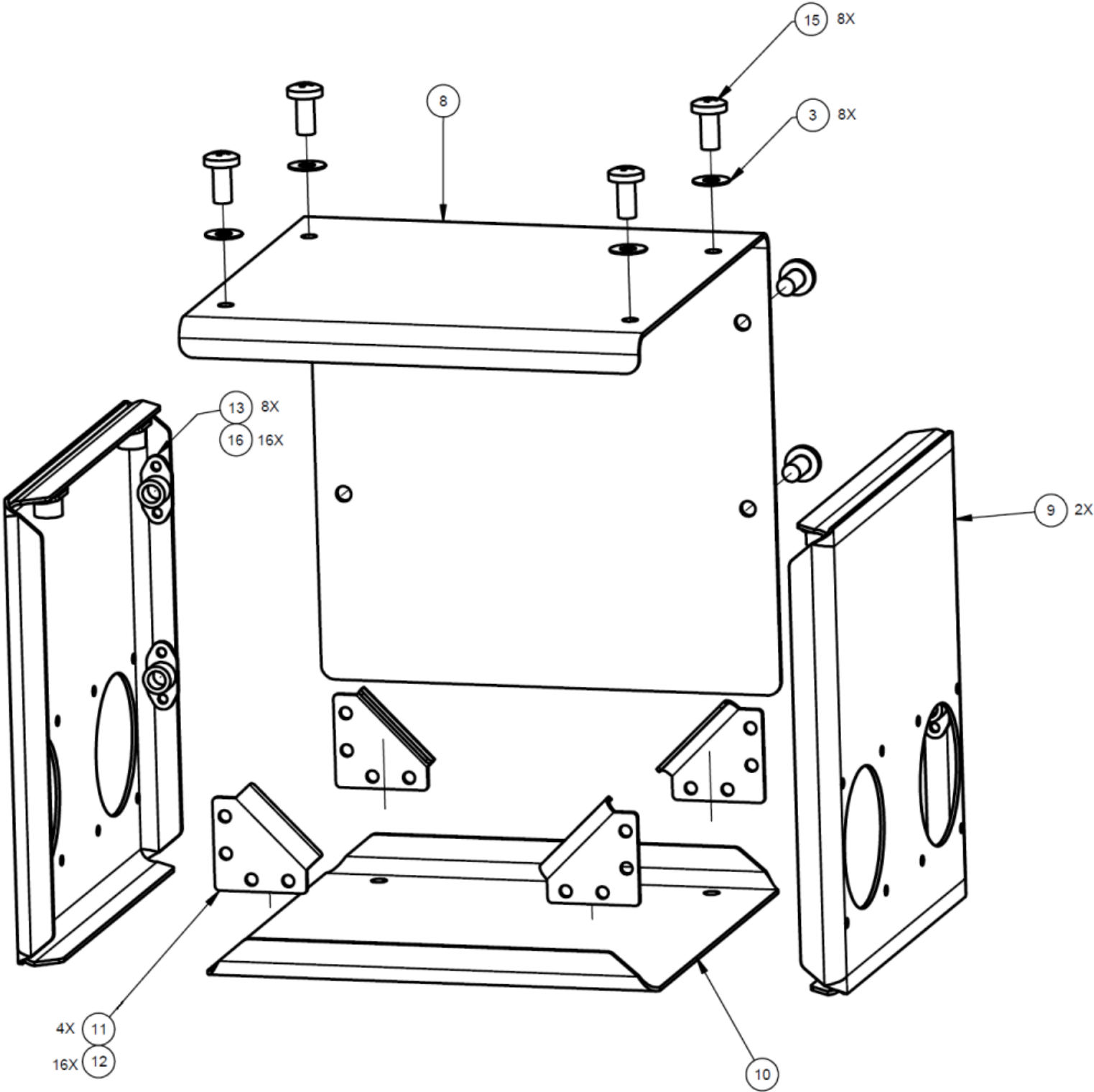


E212-725-9-02-2-007 BRACKET
MAKE FROM E212-725-9-02-2-007 FP



- NOTES:**
1. MATERIAL: 0.050" 2024-T3 PER AMS-QQ-A-250/4
 2. FINISH: ALODINE PER MIL-DTL-5541F AND APPLY PRIMER PER MIL-PRF-23377K ON ALL APPLICABLE PARTS.
 3. ALL MEASUREMENTS IN INCHES UNLESS INDICATED OTHERWISE.
 4. TOLERANCES:
X.X $\pm$ 0.100 ANGULAR $\pm$ 1/2°
X.XX $\pm$ 0.030
X.XXX $\pm$ 0.010
 5. **BREAK** ALL SHARP EDGES AND REMOVE ALL BURRS.

Figure 6 - TB-E212-725-9-009 Bracket



TB-E212-725-9-041 MISCELLANEOUS BRACKET
EXPLODED VIEW

Figure 7 - TB-E212-725-9-041 Miscellaneous Bracket

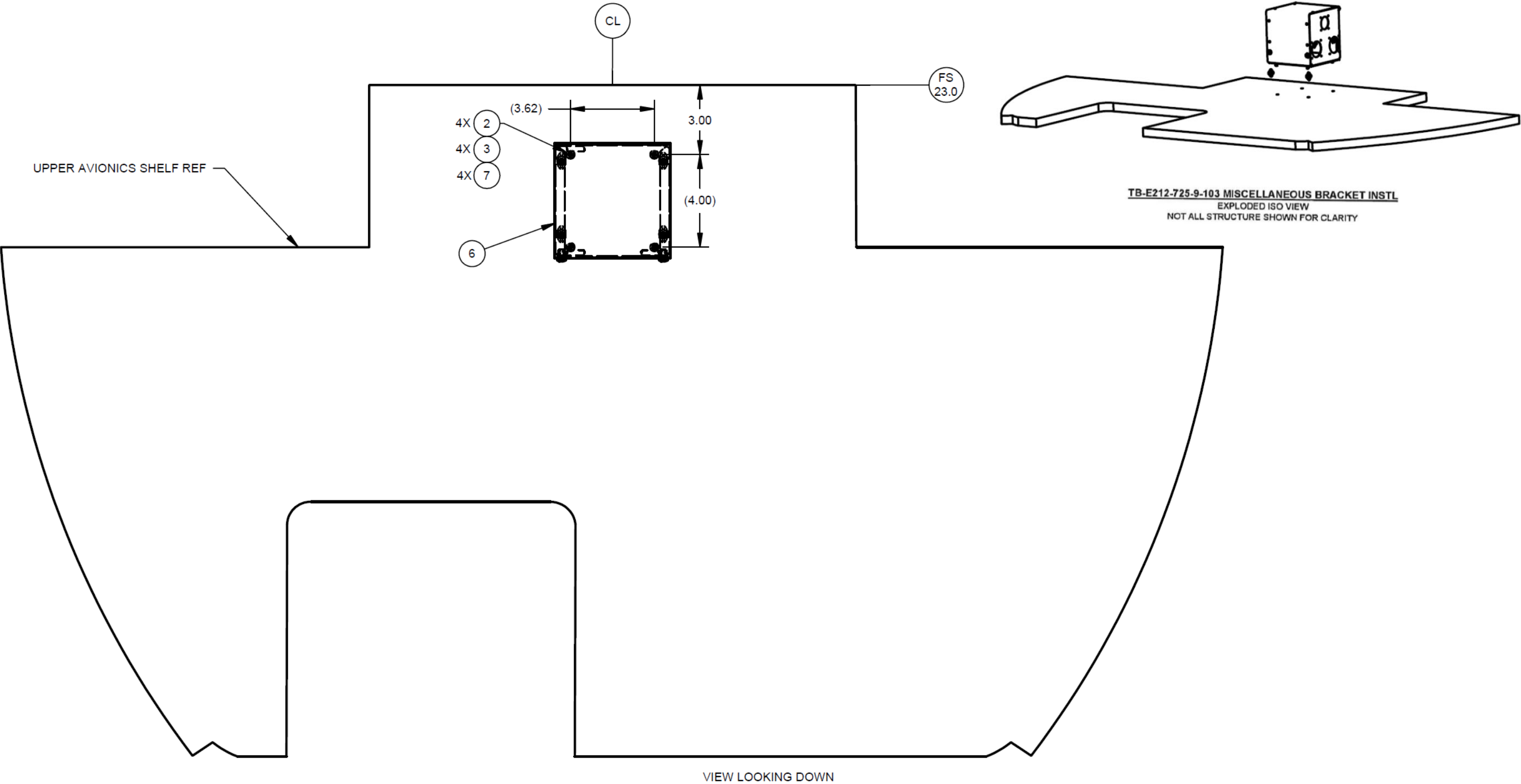
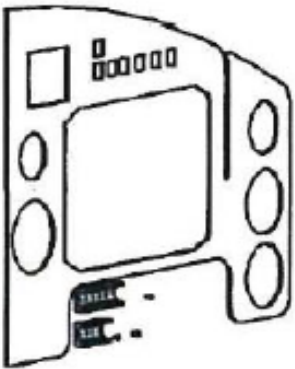
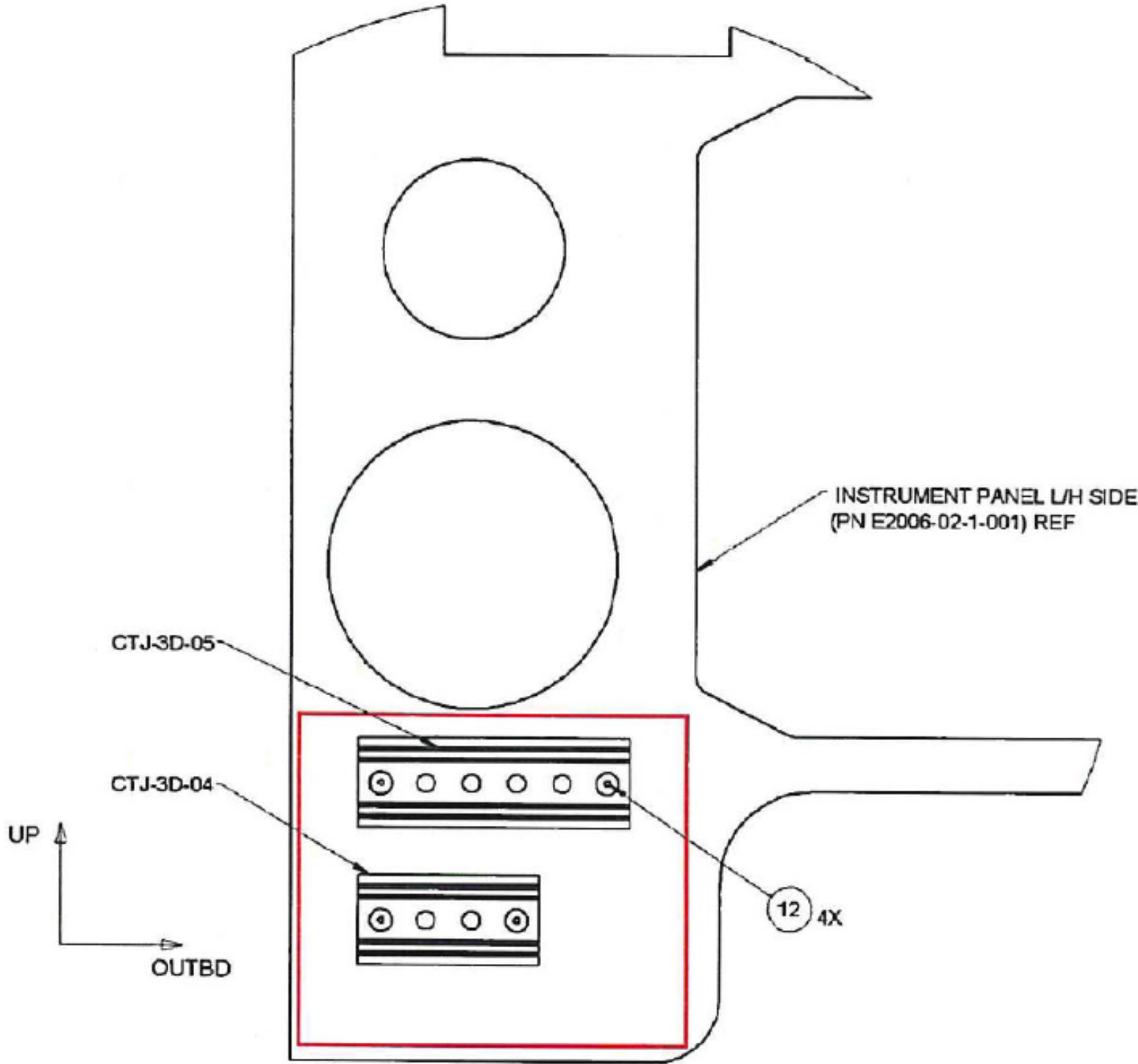


Figure 8 - TB-E212-725-9-103 Connectors Bracket Installation

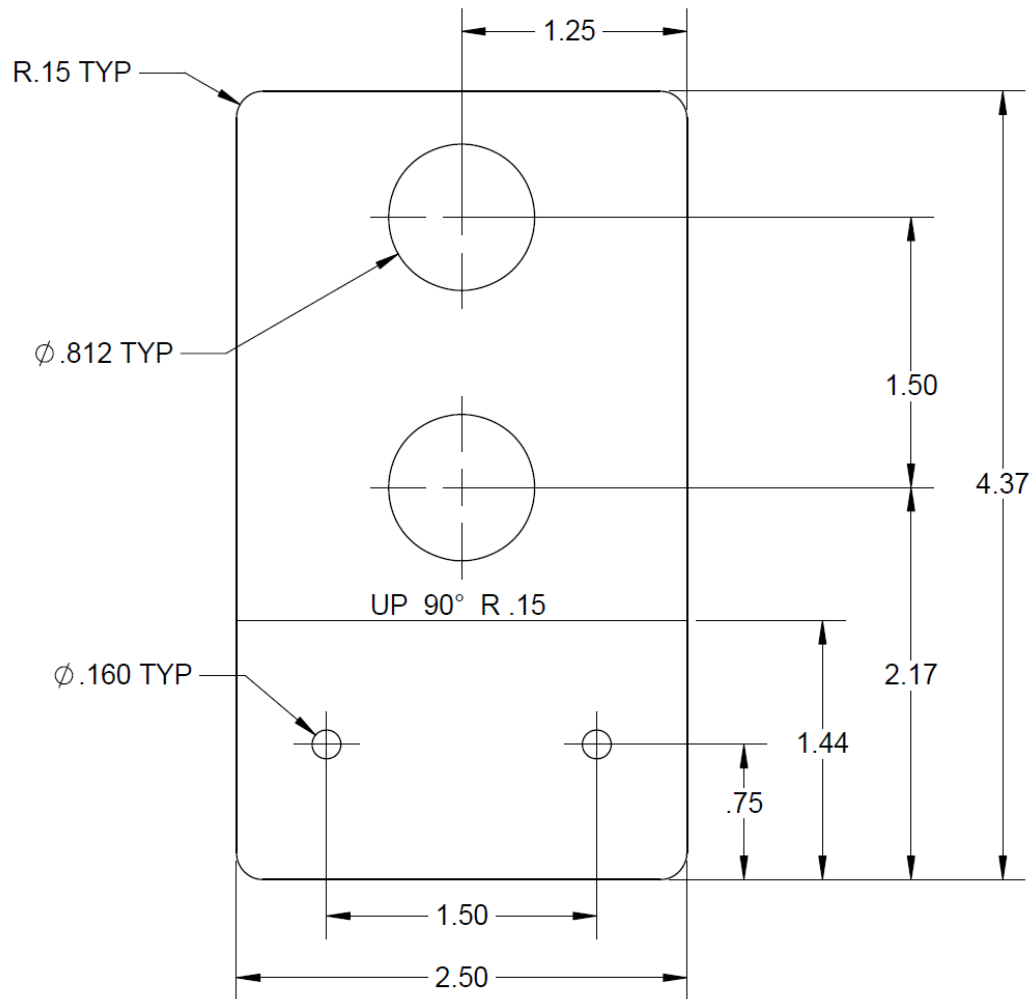


E212-725-9-105 TERMINAL BLOCKS INSTALLATION
EXPLODED VIEW
NOT ALL STRUCTURE SHOWN FOR CLARITY



TB-E212-725-9-105 - TERMINAL BLOCKS INSTALLATION
VIEW LOOKING AFT
NOT ALL STRUCTURE SHOWN FOR CLARITY

Figure 9 - TB-E212-725-9-105 Terminal Blocks Installation

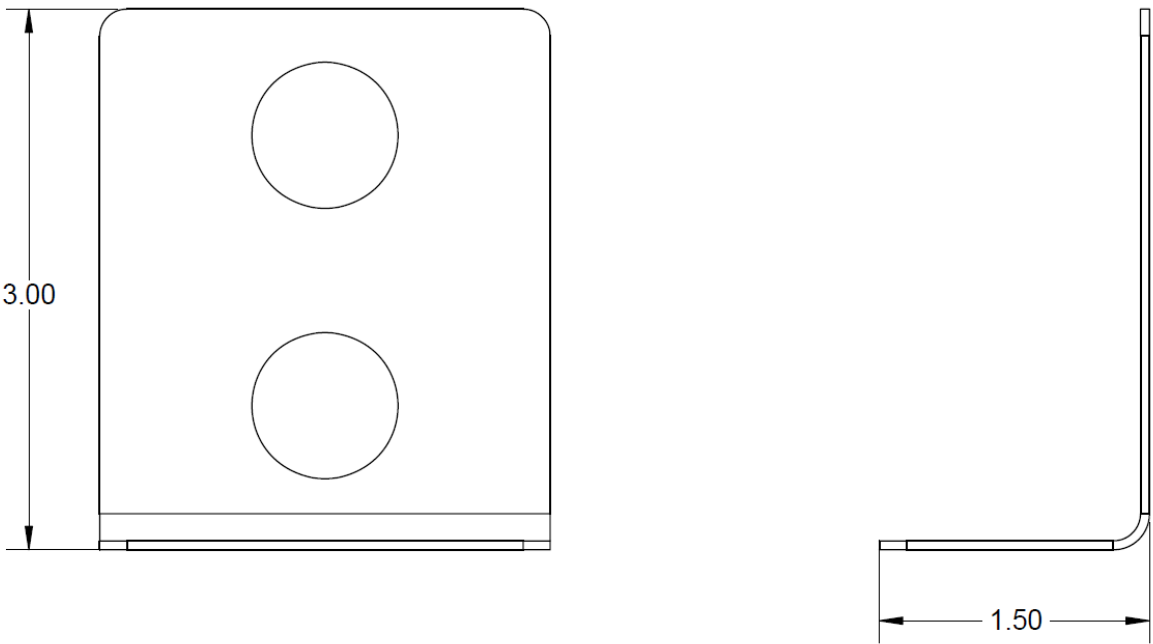


E212-725-9-03-1-011 FP BRACKET

NOTES:

1. MATERIAL: 0.050" 2024-T3 PER AMS-QQ-A-250/4
2. FINISH: ALODINE PER MIL-DTL-5541F AND APPLY PRIMER PER MIL-PRF-23377K ON ALL APPLICABLE PARTS.
3. ALL MEASUREMENTS IN INCHES UNLESS INDICATED OTHERWISE.
4. TOLERANCES:
X.X $\pm$ 0.100 ANGULAR: $\pm$ 1/2°
X.XX $\pm$ 0.030
X.XXX $\pm$ 0.010
5. BREAK ALL SHARP EDGES AND REMOVE ALL BURRS.

Figure 10 - TB-E212-725-9-011 Bracket



E212-725-9-011 BRACKET
MAKE FROM E212-725-9-011 FP

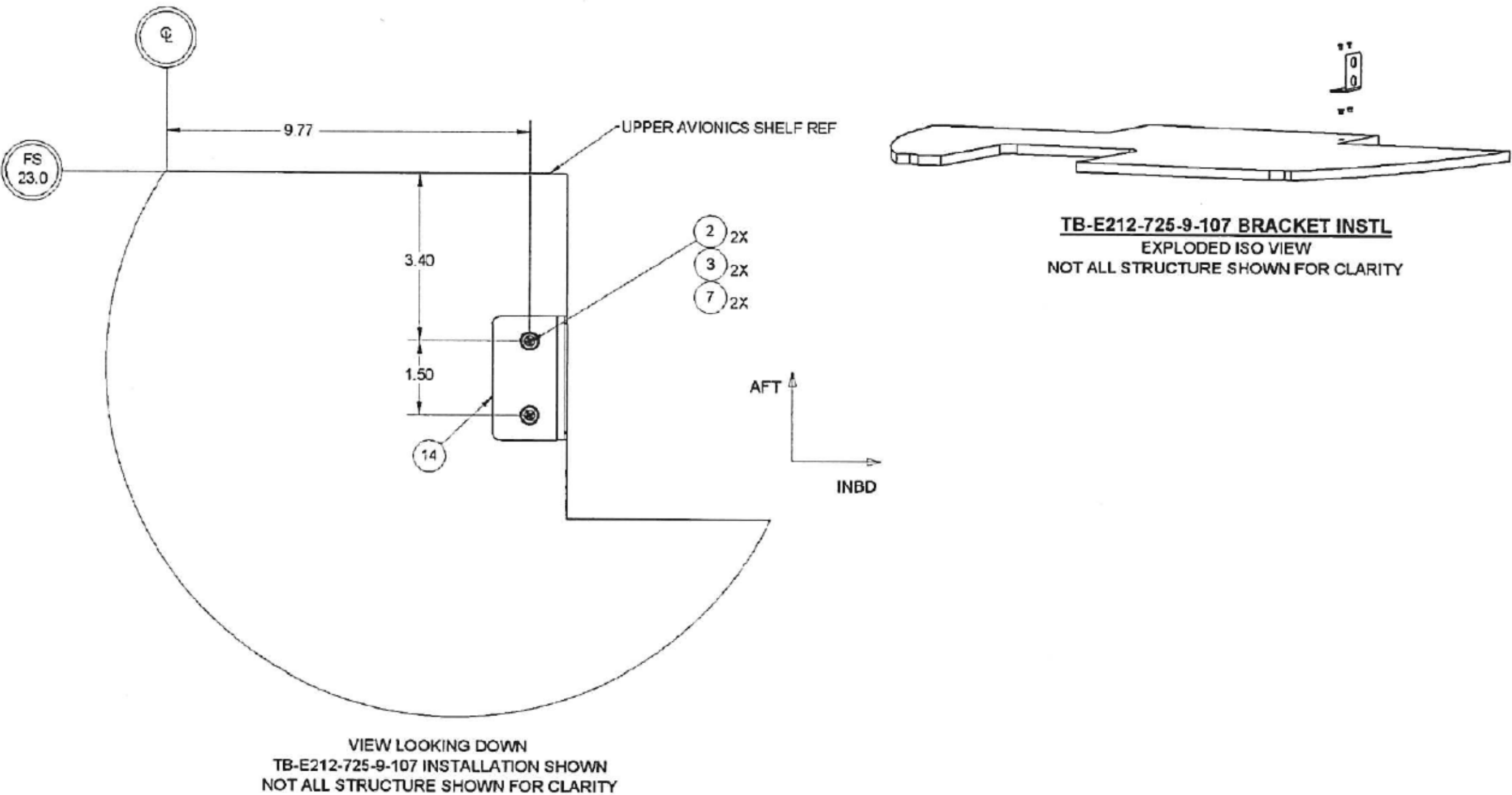


Figure 11 - TB-E212-725-9-107 Connectors Bracket Installation

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4. Test Procedure

The implementation of this technical bulletin has no need for a test procedure.

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5. Aircraft Record Set Update and Eagle Notification

1. Make an entry in the aircraft record set that TB-E212-725-9-101, TB-E212-725-9-103, TB-E212-725-9-105, and/or TB-E212-725-9-107 has been incorporated.
2. Update the aircraft's Weight and Balance and Electrical Loads records with the values in Section 2 as required.
3. Notify Eagle Copters that TB-E212-725-9 Revision B has been incorporated by emailing the below information to customersupport@eaglecopters.com:

Aircraft Serial Number

Aircraft Owner

Date Incorporated