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INSTRUCTIONS
for
CONTINUED AIRWORTHINESS
for
STANDARD CONSOLE INSTALLATION KIT
206-881-001
DELUXE CONSOLE INSTALLATION KIT
206-881-002
STC: SH2616SO

FOR
BELL HELICOPTER TEXTRON
MODEL 206A, 206B, 206L, 206L-1, 206L-3, 206L-4 HELICOPTERS

Report Number AA-00132

Revision B

July 29, 2009



RESTRICTED DISCLOSURE NOTICE

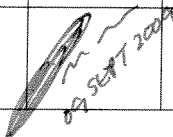
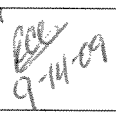
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LOG OF REVISIONS

Date	Revision	Description	Affected Pages	Approved / Date	Accepted / Date
10/25/00	NR	Original Release	All	-	-
08/29/06	A	Reformatted document Deleted (old) Section 9.0, Revision Revised Section 1.0, Introduction: Added STC reference Added (new) Section 1.2, Revisions Revised MIL-C-5541 to MIL-DTL-81706 Added Section 9.0, Weight and Balance Reformatted, revised Parts Breakdown table, Table 3 Revised Figure 3	All - 6 6 8 9 10-11 14	-	-
07/29/09	B	Reformatted Log of Revisions, Table of Contents, List of Tables, List of Figures, Title Page	All	 09 SEPT 2009	 9-14-09

LIST OF EFFECTIVE PAGES

All pages contained herein are at latest revision shown in Log of Revisions.

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1.0 INTRODUCTION

These instructions contain the information necessary to inspect and maintain the **AERONAUTICAL ACCESSORIES, INC. STANDARD CONSOLE INSTALLATION KIT 206-881-001** and **DELUXE CONSOLE INSTALLATION KIT 206-881-002** installed on Bell Helicopter Textron model 206A, 206B, 206L, 206L-1, 206L-3, and 206L-4 helicopters in accordance with STC SH2616SO.

1.1 DISTRIBUTION

These instructions are provided with each Aeronautical Accessories Console Assembly Kit. Any airworthiness or flight safety revisions will be immediately made available to all affected Console Assembly Kit owners.

1.2 REVISIONS

A Log of Revisions section is included in these instructions and will be utilized to document all changes. Change recommendations should be submitted to:
Aeronautical Accessories Inc.

P.O. Box 3689

Bristol, TN 37625-3689

Email: techsupport@aero-access.com

2.0 DESCRIPTION

The Aeronautical Accessories, Inc. Console Assembly provides a style enhancing center console unit which allows installation of an expanded array of Avionics equipment. The Console Assembly provides the pilot and co-pilot easy access to all installed Avionics equipment. The Deluxe Console includes additional bracing to allow installation of the Aeronautical Accessories, Inc. Expanded Instrument Panel.

3.0 MAINTENANCE INSTRUCTIONS

3.1 ANNUAL INSPECTION

The Console Assembly Kit shall receive an Annual Inspection consisting of the following items:

1. Inspect for proper installation of hardware, any unusual wear patterns, corrosion and/or damage (scratches, nicks, dents, cracks). Ensure the damage limits presented in Table 1 are not exceeded and replace parts as required.

NOTE

Removal of Console Assembly from helicopter is not required for inspection. If any damage is noted during the Daily/Preflight Inspection, refer to Section 3.2 Repair or Section 4.0 Troubleshooting Information.

NOTE

The indications of corrosion are: 1) corrosion deposits (a white or gray colored deposit/powder on aluminum; or amber or brown colored deposits/powder on steel); 2) pits in the aluminum or steel surface; 3) blisters, bulging, or flaking of protective coatings.

2. Inspect the attaching fasteners for security.
3. Inspect Avionics equipment for security.
4. Utilize the Inspection Record provided in Appendix A to document Inspection completion.

TABLE 1. DAMAGE AND REPAIR LIMITS

Component	Maximum Allowable Damage And Repair Limits (Damage and corrosion may be repaired as noted in Section 3.2 Repair, if it does not exceed these limits.)	
	Scratches / Nicks / Dents / Corrosion	Cracks
Console Upper Plate, Face Plate, and Side Plates	To a depth of .025"	None
Mounting and Bracing Supports	To a depth of .010"	None

3.2 REPAIR

Repair damage (scratches, nicks, dents) and corrosion as follows:

1. Lightly polish the affected area using Scotch-Brite pads. Ensure the limits presented in Table 1 are not exceeded. Take care to remove as little of the component protective coatings as possible.
2. For the aluminum components, after corrosion or damage repair: clean repaired area with isopropyl alcohol, brush Alodine bare aluminum areas per MIL-DTL-81706, and paint area to match existing finish.

4.0 TROUBLESHOOTING INFORMATION

TABLE 2. TROUBLESHOOTING GUIDE

(See Figures 1 thru 5)

Problem	Probable Cause	Remedy
Console is loose or vibrates.	Fasteners loose or missing	Check Console Support Assemblies fastening hardware for security.
	Avionics equipment fastening hardware loose or missing	Tighten any loose hardware

5.0 REMOVAL AND REPLACEMENT INFORMATION

(Refer to Table 3 and Figures 1 thru 5 for part identification.)

5.1 REMOVAL – CONSOLE ASSEMBLY

1. Remove Face Plate (17) and Upper Plate (16). Retain hardware for reinstallation.
2. Remove all Avionics equipment, excluding mounting racks and mounting systems, installed in the Console Assembly.
3. Remove the Side Plates (14 and 15). Retain hardware for reinstallation.

NOTE

If additional access is required, removal of mounting racks, and Upper Support Channel Assemblies (7 and 8 or 11 and 12) may be necessary.

5.2 INSTALLATION – CONSOLE ASSEMBLY

1. With retained hardware, install the Side Plates (14 and 15)
2. Install all Avionics equipment into their respective mounting racks or mounting systems that are installed on the Console Assembly.
3. With retained hardware, install the Face Plate (17) and Upper Plate (16).

6.0 STRUCTURAL AND FASTENER DATA

For hardware identification refer to Figures 1 thru 5 and Table 3.

7.0 RECOMMENDED OVERHAUL PERIODS

No component overhaul required for this type of design change.

8.0 AIRWORTHINESS LIMITATIONS

No airworthiness limitations associated with this type of design change.

9.0 WEIGHT AND BALANCE

Weight and balance information is as follows.

206-881-001 Standard Console Assembly Kit

<u>Net Weight Change</u>	<u>Station</u>	<u>Lateral Arm</u>
4.0 lbs (1.8 Kg)	50.00 in (1270 mm)	+1.0 in (+25.4 mm)

206-881-002 Deluxe Console Assembly Kit

<u>Net Weight Change</u>	<u>Station</u>	<u>Lateral Arm</u>
4.99 lbs (2.26 Kg)	50.00 in (1270 mm)	+1.0 in (+25.4 mm)

10.0 PARTS BREAKDOWN

Table 3 contains Parts Breakdown data for 206-881-001 / 206-881-002 Console Assembly Kits. The column Availability Code (AV Code) specifies the procurement status for each part. The codes to identify if a part is procurable, procedure details to get an assembly or local manufacture code are as follows:

AV Code	Details
0	Non-procurable part
1	Procurable part
2	Procure as detail parts only
3	Procurable as Next Higher Assembly
4	Local manufacture. Contact AAI Product Support Engineering (PSE)
5	Part replacement requires a fixture or special equipment. Contact AAI PSE
6	Non-stock procurable part

**TABLE 3. PARTS BREAKDOWN,
206-881-001 STANDARD CONSOLE INSTALLATION KIT /
206-881-002 DELUXE CONSOLE INSTALLATION KIT**

Index No.	Qty -001	Qty -002	Part Number	Description	AV Code
1	1	1	206-882-101	Lower Side Support Angle Assembly L/H	1
2	1	1	206-882-102	Lower Side Support Angle Assembly R/H	1
3	1	1	206-882-103	Forward Side Support Angle Assembly L/H	1
4	1	1	206-882-104	Forward Side Support Angle Assembly R/H	1
5	1		206-882-105	Standard Surface Channel Assembly L/H	1
6	1		206-882-106	Standard Surface Channel Assembly R/H	1
7	1		206-882-107	Standard Upper Support Channel Assembly L/H	1
8	1		206-882-108	Standard Upper Support Channel Assembly R/H	1
9		1	206-882-109	Deluxe Surface Channel Assembly L/H	1
10		1	206-882-110	Deluxe Surface Channel Assembly R/H	1
11		1	206-882-111	Deluxe Upper Support Channel Assembly L/H	1
12		1	206-882-112	Deluxe Upper Support Channel Assembly R/H	1
13	2	2	206-882-113	Aft support Angle Assembly	1
14	2		206-882-140	Standard Side Plate	1
15		2	206-882-141	Deluxe Side Plate	1
16	1	1	206-882-142	Upper Plate	1
17	1	1	206-882-143	Face Plate	1
18	1	1	206-882-144	Aft Plate	1
19		1	206-882-145	Brace L/H	1

**INSTRUCTIONS for CONTINUED AIRWORTHINESS
CONSOLE INSTALLATION KIT**

**TABLE 3. PARTS BREAKDOWN,
206-881-001 STANDARD CONSOLE INSTALLATION KIT /
206-881-002 DELUXE CONSOLE INSTALLATION KIT**

Index No.	Qty -001	Qty -002	Part Number	Description	AV Code
20		1	206-882-146	Brace R/H	1
21		2	206-882-147	Angle	1
22	4	4	206-882-295	Plug Button	1
23		1	407-882-113	Panel Assembly	1
24		1	206-882-161	Support	1
25		1	206-882-162	Support	1
26	52	57	MS27039-1-06	Screw	1
27	70	79	NAS1149DO332J	Washer	1
28	6	6	MS21042L3	Nut, Locking	1
29	12	12	MS27039-1-08	Screw	1
30	10	16	MS21069L3	Nut Plate	1
31		4	AN3-5A	Bolt	1
32		6	CR3522-5-3	Rivet	1
33		14	CR3523-5-3	Rivet	1
34		4	MS21266-1N	Grommet	1
35		4	CR3522-5-2	Rivet	1
36		4	CR3243-4-4	Rivet	1
37		12	CCR264SS3-2	Rivet	1
38	20	24	MS20426AD3-4	Rivet	1

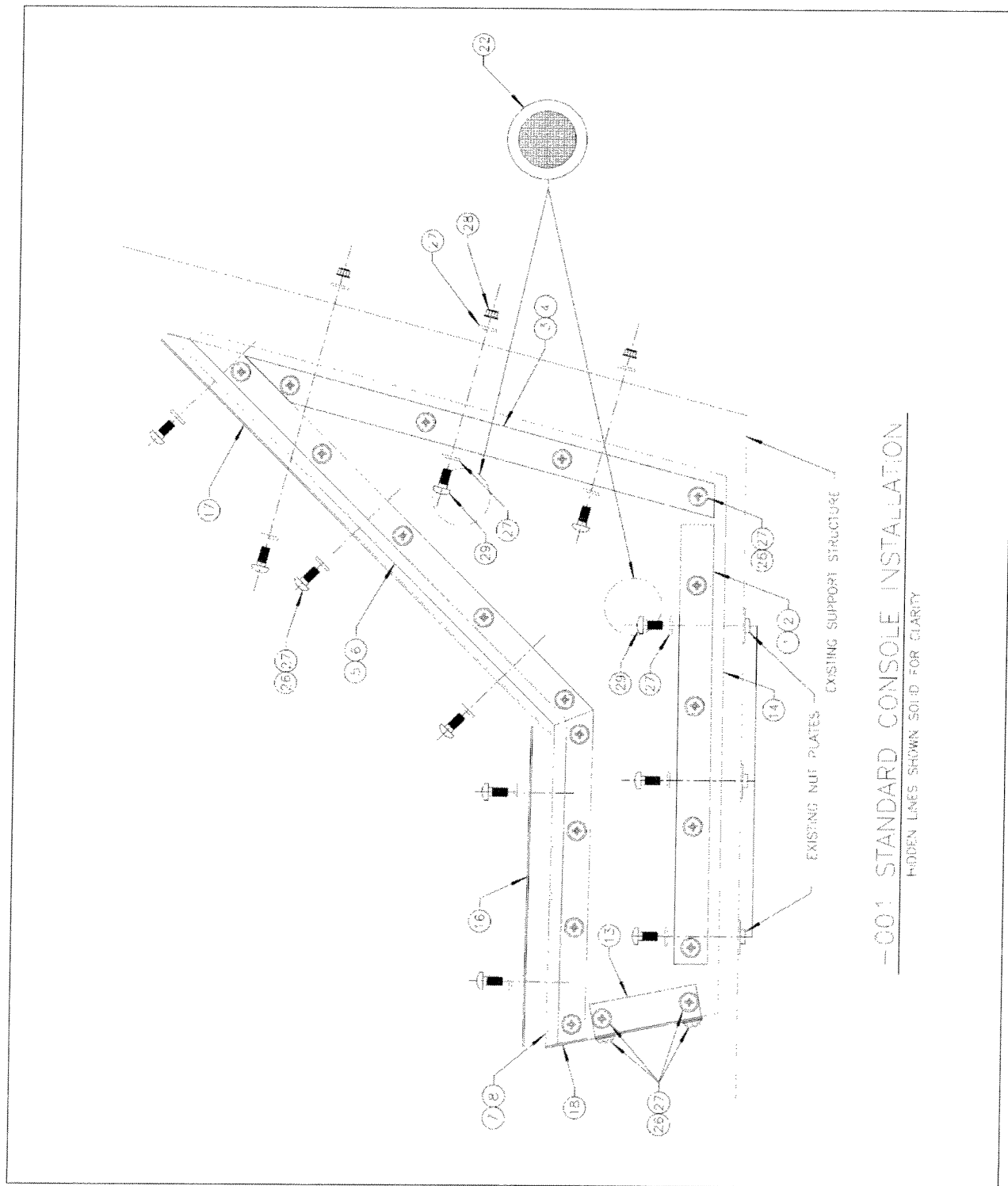


FIGURE 1. 206-881-001 STANDARD CONSOLE ASSEMBLY INSTALLATION

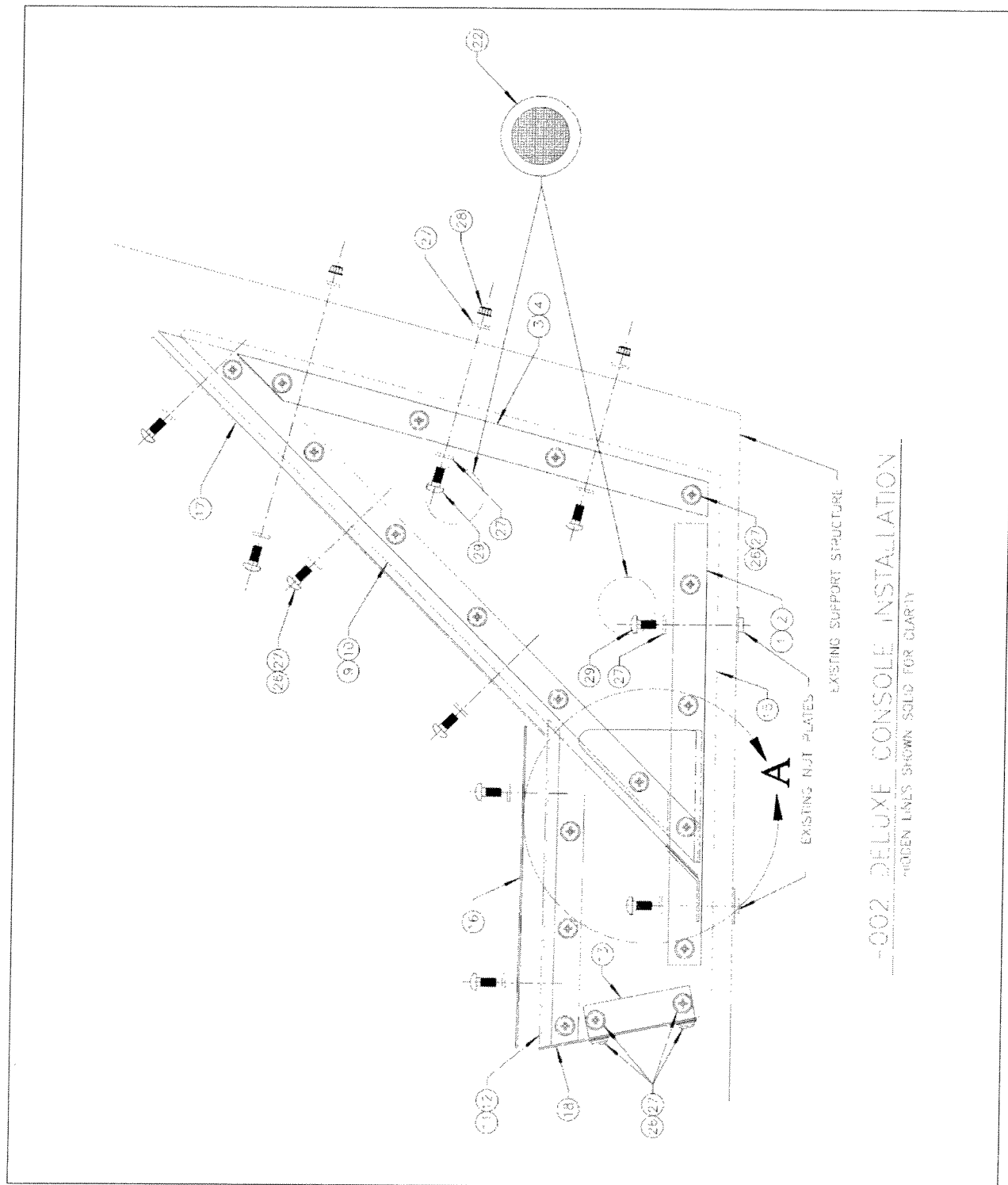


FIGURE 2. 206-881-002 DELUXE CONSOLE ASSEMBLY INSTALLATION

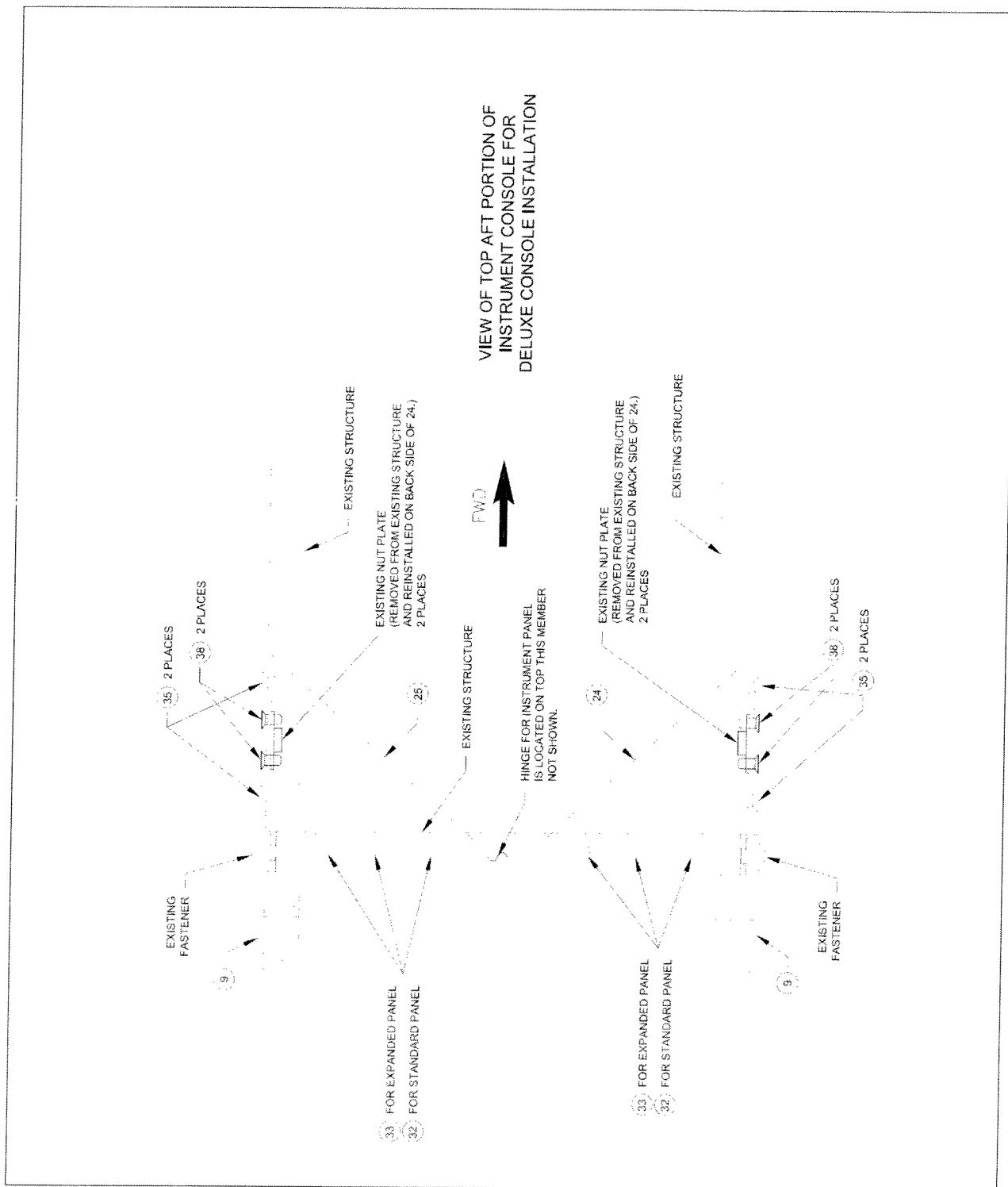


FIGURE 3. 206-881-002 DELUXE CONSOLE ASSEMBLY INSTALLATION

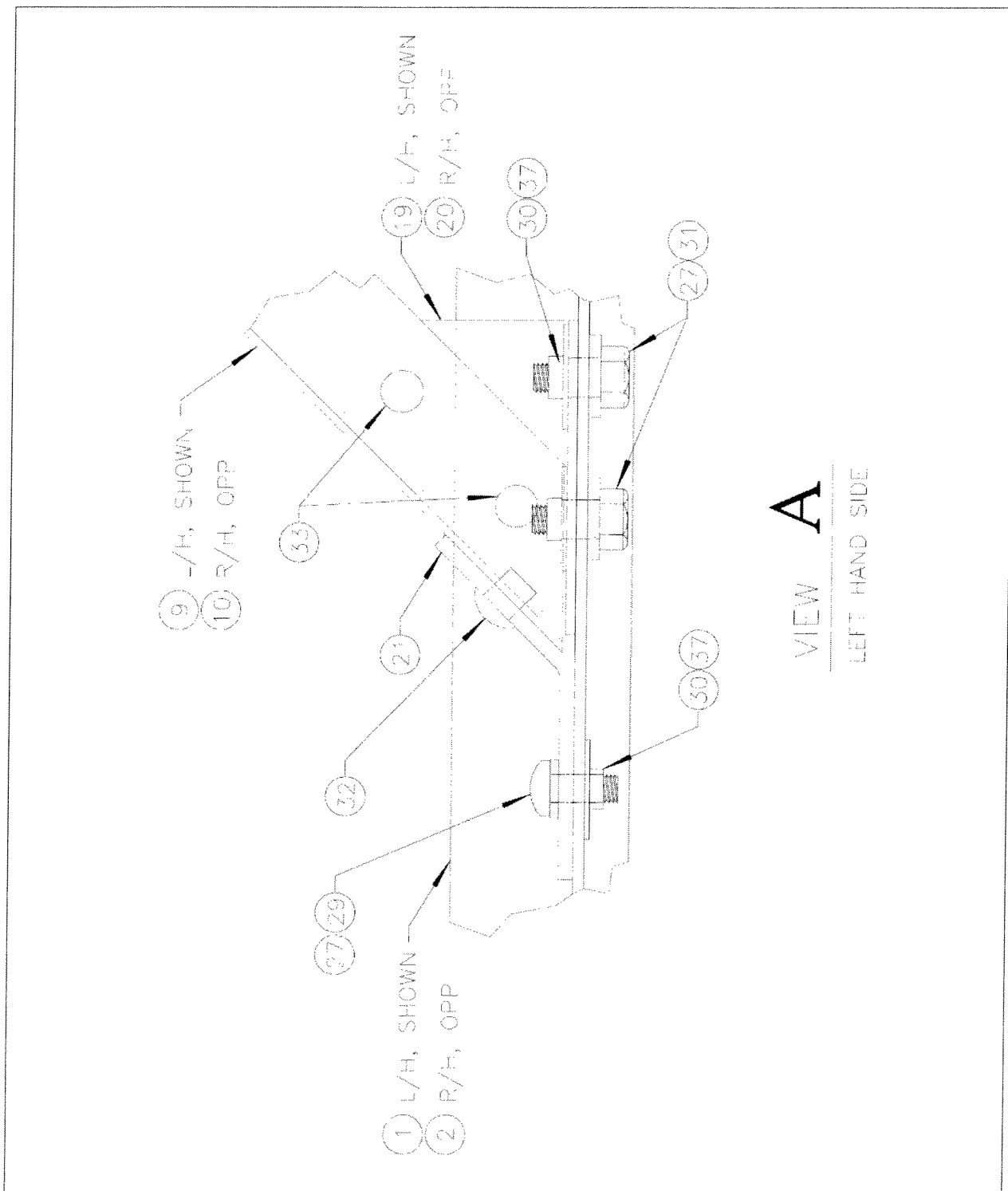


FIGURE 4. 206-881-002 DELUXE CONSOLE ASSEMBLY INSTALLATION

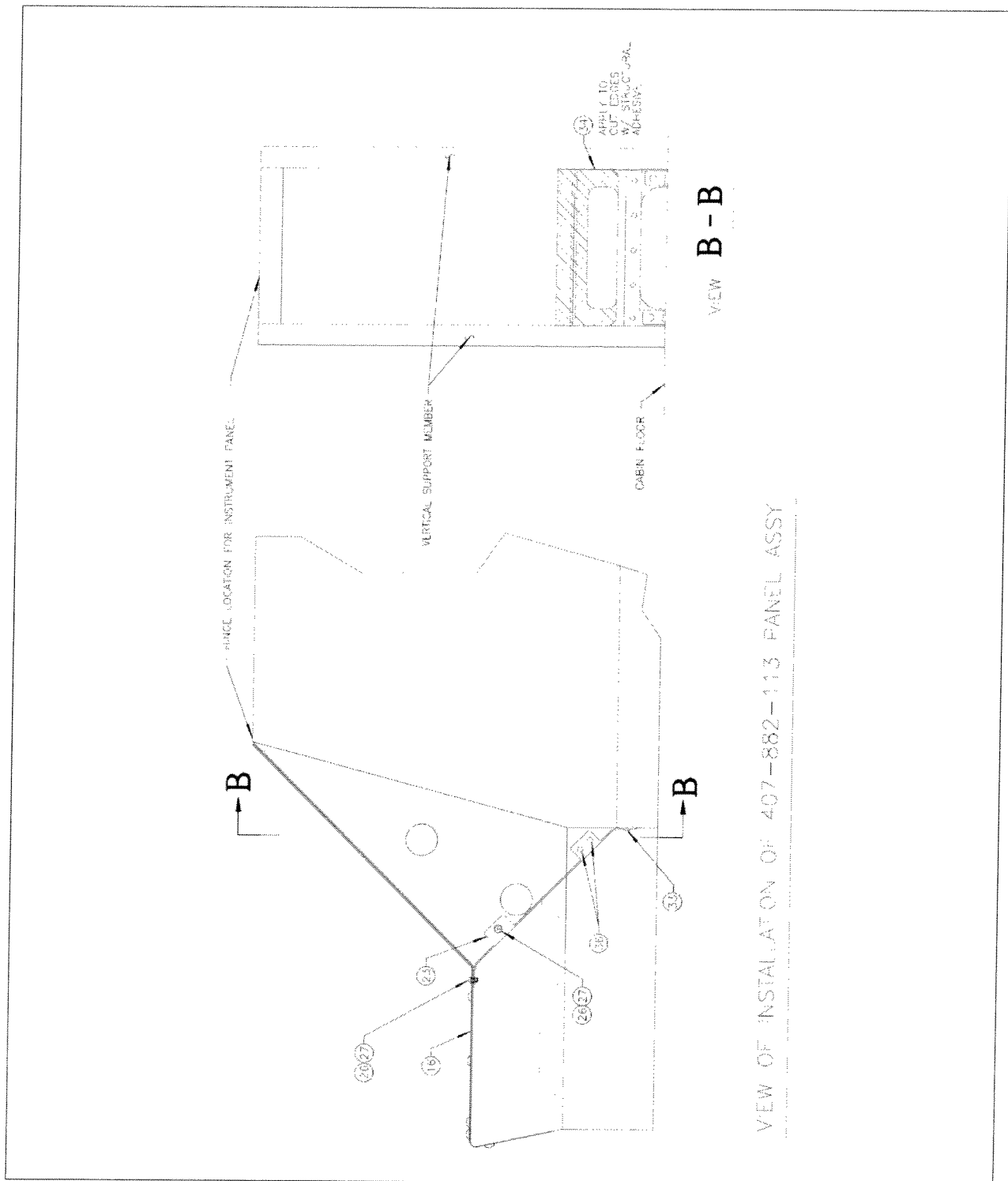


FIGURE 5. 206-881-002 DELUXE CONSOLE ASSEMBLY INSTALLATION

APPENDIX A

Inspection Record

Work Order Number: _____

Registration Number: _____

Serial Number: _____

Total Time: _____

Date: _____

Inspect the Console Assembly in accordance with Section 3.1 Annual Inspection.

NOTE

Removal of Console Assembly from helicopter is not required for inspection.

NOTE

If any damage or malfunction is noted during inspection, refer to Section 3.2 Repair or Section 4.0 Troubleshooting Information

1. Inspect for proper installation of hardware, any unusual wear patterns, corrosion and/or damage (scratches, nicks, dents, cracks). Ensure the damage limits presented in Table 1 are not exceeded and replace parts as required.

NOTE

The indications of corrosion are: 1) corrosion deposits (a white gray powder on aluminum, and amber or brown powder on steel), 2) pits in the part surfaces, 3) blisters on the part surfaces.

2. Inspect the attaching fasteners for security.

3. Inspect Avionics equipment for security.

Signature _____ A & P No. _____

Signature _____ Inspector _____