



Department of Transport

Supplemental Type Certificate

This approval is issued to:

DART Aerospace USA, Inc.
Fairchild International Airport
Building 1402-F
Port Angeles, WA 98363

Number: SH98-14

Issue No.: 2

Approval Date: May 11, 1998

Issue Date: January 21, 1999

Responsible Office:

Pacific

Aircraft/Engine Type or Model:

Bell 206A, 206B, 206L, 206L-1, 206L-3, 206L-4 and 407

Canadian Type Certificate or Equivalent:

H-92

Description of Type Design Change:

Installation of DART Heli-Access-Steps on the Landing Gear Cross Tubes in accordance with FAA STC SA00500SE

**Installation/Operating Data,
Required Equipment and Limitations:**

These passenger steps are to be fabricated in accordance with DART Aerospace Master Drawing List (MDL) No. MDL-D206-628, Revision "A", dated December 10, 1997 and installed in accordance with DART Aerospace Installation Instruction No. IIN-D206-628, Revision "A", dated November 28, 1997. These passenger access steps must be maintained in accordance with DART Aerospace Maintenance Manual Supplement No. MMS-D206-628, Revision "A", dated November 27, 1997.

Basis of Certification as defined in the applicable Type Certificate Data Sheets.



Conditions: This approval is only applicable to the type/model of aeronautical product specified therein. Prior to incorporating this modification, the installer shall establish that the interrelationship between this change and any other modification(s) incorporated **will not** adversely affect the airworthiness of the modified product.

J. H. Nehera
Regional Manager, Aircraft Certification
For Minister of Transport

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA00500SE

This certificate, issued to: **DART Aerospace USA, Inc.**
Fairchild International Airport
Building 1402-F
Port Angeles, WA 98363

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified hereon meets the airworthiness requirements of Part 6 of the Civil Air Regulations.

Original Product—Type Certificate Number H2SW
Make: Bell
Model: 206A, 206B, 206L, 206L-1, 206L-3, 206L-4, and 407

Description of the Type Design Change: Installation of DART Heli-Access-Steps on the skid landing gear cross tubes. These passenger access steps are fabricated in accordance with DART Aerospace Master Drawing List (MDL) No. MDL-D206-628, Revision "A," dated December 10, 1997, or later Federal Aviation Administration (FAA) approved revision and installed in accordance with DART Aerospace Installation Instruction No. IIN-D206-628, Revision "A," dated November 28, 1997, or later FAA approved revision. These passenger access steps must be maintained in accordance with DART Aerospace Maintenance Manual Supplement No. MMS-D206-628, Revision "A," dated November 27, 1997, or later FAA approved revision.

Limitations and Conditions: Approval of this change in type design applies to the above model aircraft only. This approval should not be extended to other aircraft of these models on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in type design, will introduce no adverse effect upon the airworthiness of that aircraft. A copy of this Certificate must be maintained as part of the permanent records for the modified aircraft.

If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.

This certificate and the supporting data which is the basis for approval shall remain in effect until surrendered, suspended, revoked, or a termination date is otherwise established by the Administrator of the Federal Aviation Administration.

Date of application: December 11, 1997
Date of issuance February 10, 1998

*Date reissued:**Date amended:**By direction of the Administrator*

A handwritten signature in dark ink, appearing to read "Adrian Das", is written over a horizontal line.

(Signature)

 Acting Manager, Seattle Aircraft
 Certification Office

(Title)

Any alteration of this certificate is punishable by a fine of not exceeding \$1,000, or imprisonment not exceeding 3 years, or both.

This certificate may be transferred in accordance with FAR 21.47.



SUPPLEMENTAL TYPE CERTIFICATE

EASA.IM.R.S.01339

This certificate, established in accordance with Regulations (EC) No 1592/2002 and (EC) No 1702/2003 and issued to:

Dart Aerospace USA, Inc.
110 Chimacum Creek Drive
98339 Port Hadlock
WA
United States

certifies that the change in the type design for the product listed below with the limitations and conditions specified meets the applicable type certification basis and environmental protection requirements when operated within the conditions and limitations specified below:

Original Product Type Certificate number: *TCCA TCDS H-92*

Manufacturer: *Bell Helicopter Textron Canada Ltd.*

Model: *Bell 206A, Bell 206B, Bell 206L-1, Bell 206L-3,
Bell 206L-4, Bell 407*

Original STC Number: *Transport Canada STC SH98-14*

Description of Design Change:

D206-628 Heli Access Steps.



Associated Technical Documentation:

- MDL-D206-628 – Master Drawing List, Revision A dated 10 December 1997 or later approved revision;
- IIN-D206-628 – Installation Instruction, Revision A dated 28 November 1997 or later approved revision;
- MMS-D206-628 – Maintenance Manual Supplement, Revision A dated 27 November 1997 or later approved revision

Limitations and Conditions:

Prior to installation of this modification the installer must determine that the interrelationship between this modification and any other previously installed modification will introduce no adverse effect upon the airworthiness of the product. The installation of this modification by third persons is subject to written permission of the approval holder.

This certificate shall remain valid unless otherwise surrendered or revoked.

For the European Aviation Safety Agency,
Date of Issue: 26 July 2007

A handwritten signature in black ink, appearing to read 'M. Mazzoletti', is positioned above the printed name.

Massimo MAZZOLETTI
Certification Manager
Rotorcraft, Balloons, Airships



AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO **2009S08-23**
(Number)

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

é conferido ao (à): DART Aerospace USA Inc.
(is granted to:) Farchild International Airport Build 1402-F
Port Angeles, WA - 98363
USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)
especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(specified hereon, met the applicable airworthiness requirements.)

Produto Original - Número do Certificado de Tipo: H-92 (TCCA).
(Original Product - Type Certificate No:)

Fabricante: Bell Helicopter Textron.
(Manufacturer:)

Modelo(s): 206, 206A, 206B, 206L-1, 206L-3 and 206L-4.
(Model(s):)

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:

(Description of Type Design Change:)

Installation of the Heli-Access-Steps on the Skid landing gear cross tube in accordance with DART Aerospace Master Document List No. MDL-D206-628, Rev. H, dated 07 Feb. 2008, or later approved revisions.

This CHST validates in Brazil the STC # SA00500SE, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:

(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:

(Dates of:)

Do Requerimento: 10 June 2009
(Application:)

Da emissão: 25 Aug. 2009
(Issue:)

Da reemissão:
(Reissue:)

ADEMIR ANTÔNIO DA SILVA
Gerente Geral, Certificação de Produto Aeronáutico
(Manager, Aeronautical Product Certification)

DINIZ SHIKURA
Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)



ANAC

AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2009S08-23
(Number)

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that rotorcraft.
- II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- III. Maintenance Manual Supplement (MMS), Document No. MMS-D206-628, Rev. B, dated 15 Oct. 1998, or a later FAA approved revision is required for this installation.
- IV. A copy of this Certificate shall be maintained as part of the permanent records of the modified rotorcraft.

----- END -----



ANAC

AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2009S08-24

(Number)

Este certificado, emitido com base na Lei nº 7565 "Código Brasileiro de Aeronáutica", de 19 de dezembro de 1986,
(This certificate, issued in the basis of the Law No. 7565 "Código Brasileiro de Aeronáutica", dated 19 December 1986,

é conferido ao (à): DART Aerospace USA Inc.

(is granted to:)

Farchild International Airport Build 1402-F

Port Angeles, WA - 98363

USA

por ter a modificação ao projeto de tipo do produto abaixo citado, observadas as limitações e condições
(for having the change to the type design of the product mentioned below, with the limitations and conditions therefor as)

especificadas, satisfeito aos requisitos de aeronavegabilidade aplicáveis.
(specified hereon, met the applicable airworthiness requirements.)

Produto Original - Número do Certificado de Tipo: 9603 (ANAC).

(Original Product - Type Certificate No:)

Fabricante: Bell Helicopter Textron.

(Manufacturer:)

Modelo(s): 407.

(Model(s):)

DESCRIÇÃO DA MODIFICAÇÃO AO PROJETO DE TIPO:

(Description of Type Design Change:)

Installation of the Heli-Access-Steps on the Skid landing gear cross tube in accordance with DART Aerospace Master Document List No. MDL-D206-628, Rev. H, dated 07 Feb. 2008, or later approved revisions.

This CHST validates in Brazil the STC # SA00500SE, issued by FAA (USA).

LIMITAÇÕES E CONDIÇÕES:

(Limitations and Conditions:)

See continuation sheet for applicable data.

DATAS:

(Dates of:)

Do Requerimento: 10 June 2009

(Application:)

Da emissão: 25 Aug. 2009

(Issue:)

Da reemissão:

(Reissue:)

ADEMIR ANTÔNIO DA SILVA

Gerente Geral, Certificação de Produto Aeronáutico
(Manager, Aeronautical Product Certification)

DINO ISHIKURA

Superintendente de Aeronavegabilidade
(Airworthiness Superintendent)



ANAC

AGÊNCIA NACIONAL DE AVIAÇÃO CIVIL - BRASIL

Folha de Continuação ao
(Continuation Sheet to)

CERTIFICADO DE HOMOLOGAÇÃO SUPLEMENTAR DE TIPO

(Supplemental Type Certificate)

NÚMERO 2009S08-24
(Number)

LIMITAÇÕES E CONDIÇÕES:
(Limitations and Conditions:)

- I. The approval of this type design change should not be extended to other rotorcraft of this model on which other previously approved modifications are incorporated unless it is determined by the installer that the relationship between this change and any of those other previously approved modifications, including changes in Type Design, will introduce no adverse effect upon the airworthiness of that rotorcraft.
- II. If the holder agrees to permit another person to use this certificate to alter the product, the holder shall give the other person written evidence of that permission.
- III. Maintenance Manual Supplement (MMS), Document No. MMS-D206-628, Rev. B, dated 15 Oct. 1998, or a later FAA approved revision is required for this installation.
- IV. A copy of this Certificate shall be maintained as part of the permanent records of the modified rotorcraft.

----- END -----

DART

DART AEROSPACE USA, INC.
110 Chimacum Creek Drive
Port Hadlock, WA 98339

Tel: 1 613 632 5200

Fax: 1 613 632 5246

e-mail: heli@dartaero.com<http://www.dartaero.com>

INSTALLATION INSTRUCTIONS

IIN-D206-628

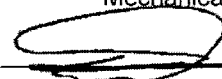
Heli-Access-StepTM Installations

BELL 206/407 MODELS

Prepared By:

C. Provencal
Mechanical Designer

Checked By:

A. Stocker
Mechanical Designer

Released By:

D. Shepherd, P. Eng
DE #02

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Revision: **G**

Date: 11.02.25

Revision Record

Revision	Issue Date	Description
A	97.11.28	New Issue
B	98.03.05	Update hardware
C	98.05.27	Re-design for various crosstube diameters
D	98.10.16	Add float compatible steps
E	05.09.20	Re-design clamping system
F	08.02.07	Incorporate: DSI 9332 (remove abrasion strips and add rubber cushions) DSI 9352 (change height on -021/-022/-031/-032)
G	11.02.25	Add -015/-016/-017/-018/-025/-026/-027/-028/-035/-036/-037/-038; Incorporate DSI 9235/9500, change lug p/n's of -011/-012 to match -013/-014

1.0 INTRODUCTION

These instructions cover the installation of Dart *Heli-Access-Steps™* on 206 and 407 series aircraft. The steps are available in four configurations: a long step that mounts on the fwd and aft crosstubes, a float compatible long step, a crew step that mounts to the forward crosstube, and a maintenance step that mounts to the aft crosstube.

Long step

D206-628-011/-012 (206 A/B)
D206-628-021/-022 (206L/L-1/L-3/L-4)
D206-628-031/-032 (407)

Long step, float compatible

D206-628-013/-014 (206 A/B)
D206-628-023/-024 (206L/L-1/L-3/L-4)
D206-628-033/-034 (407)

Crew step

D206-628-015/-016 (206 A/B)
D206-628-025/-026 (206L/L-1/L-3/L-4)
D206-628-035/-036 (407)

Maintenance step

D206-628-017/-018 (206 A/B)
D206-628-027/-028 (206L/L-1/L-3/L-4)
D206-628-037/-038 (407)

The Dart Heli-Access-Step™ Installations are approved on the 206 and 407 series Rotorcraft when installed with the crosstubes listed in Table 1.

AIRCRAFT MODELS	DART INSTALLATION	FORWARD CROSSTUBES	AFT CROSSTUBES
206 A/B w/ High Gear	D206-628-011 D206-628-012 D206-628-013 D206-628-014 D206-628-015 D206-628-016 D206-628-017 D206-628-018	206-050-107-025 206-050-107-119 206-050-288-101 206-321-019 D206-667-101	206-050-107-027 206-050-107-121 206-050-288-103 206-321-022 206-321-024 D206-667-201
206 L/L-1/L-3/L-4 w/ High Gear	D206-628-021 D206-628-022 D206-628-023 D206-628-024 D206-628-025 D206-628-026 D206-628-027 D206-628-028	206-053-109-007 206-053-109-103 206-053-109-105 206-053-109-109 206-053-203-101 206-323-021 D206-667-103	206-053-109-005 206-053-109-101 206-053-109-107 206-053-203-103 206-323-022 D206-667-203
407 w/ High Gear	D206-628-031 D206-628-032 D206-628-033 D206-628-034 D206-628-035 D206-628-036 D206-628-037 D206-628-038	407-050-201-101 407-724-101 D407-667-105	407-050-202-101 407-725-104 D407-667-205

Table 1: Step Installations

The components in the Dart Heli-Access-Step Installations are as defined in the Parts Lists of this document. The different Dart Installations are designated by the last 3 digits of the Dart Heli-Access-Step Installation Part Number. For convenience, only the last three digits of the Part Number are listed on the top row of each table.

2.0 GENERAL NOTES

COMPATIBILITY

Compatibility of this installation with the aircraft is the **responsibility of the installer**. Ensure that this installation does not conflict with a previous modification.

CONTINUING AIRWORTHINESS

This installation should be maintained in accordance with the Maintenance Manual Supplement
MMS-D206-628

WORKMANSHIP

Unless otherwise stated, all workmanship should be to the standards set by the Aircraft Maintenance Manual. Note that all bolts should have a minimum of 1.5 threads exposed after the nut. **Bolts that do not have the minimum of 1.5 threads exposed after the nut must be replaced with longer bolts by the customer.** It is acceptable to use shorter bolts if required as long as a minimum of 1.5 threads exposed after the nut.

3.0 INSTALLATION PROCEDURE

Step installations for the Bell 206 A/B, 206 L/L1/L3/L4, and 407 are illustrated in Figures 1 through 4.

3.1 General installation procedures for Long Heli-Access-Steps™ (D206-628-011/-012/-013/-014/-021/-022/-023/-024/-031/-032/-033/-034)

NOTE: In corrosive environments, it is recommended to coat exposed hardware with LPS Procyon after installation.

- 3.1.1 Present the step to the crosstubes as outlined per Figure 1 or 3. Installations can be facilitated by propping the step at the appropriate height.
- 3.1.2 Locate the mounting lugs onto the crosstubes per Figure 2, 4, or 5. Use the step as a guide to ensure proper lug placement on the crosstubes.
- 3.1.3 Position the D2732-032 Rubber Cushions between the clamps and crosstubes per Figure 2, 4, or 5 (8 places) and install hardware. Leave bolts loose to allow for adjustment.

NOTE: The Heli-Access-Steps are shipped with different mounting lugs and bolt lengths for different aircraft. Ensure the proper bolt lengths and mounting lugs are used for the appropriate aircraft on the appropriate cross tubes (refer to Table 2 below).

Aircraft	Location	Lugs	Bolts to use for Regular Steps	Bolts to use for Float Compatible Steps
206 B Series	Aft X-tube	D3394-043/ D2731-7 w/ Apical Tri-bag float: D4064-041	AN4-12A	AN4C13A
	Fwd X-tube	D3394-043/ D2731-7	AN4-13A	AN4C13A
206 L Series	Aft X-tube	D3394-043/ D2731-7	AN4-15A	AN4C15A
	Fwd X-tube	D3394-043/ D2731-7	AN4-14A	AN4C14A
407 Series	Aft X-tube	D3394-041/ D2731-3	AN4-13A	AN4C14A
	Fwd X-tube	D3394-041/ D2731-3	AN4-14A	AN4C14A

Table 2: Clamp Installation Bolts for Regular and Float Compatible Steps

- 3.1.4 Ensure step is level and at the correct height from the ground as shown in Figure 1 or 3. For Float Compatible Heli-Access-Steps, loosely attach the arms to the step and use the arms to gauge the height of the step. The arms should hang so that they may easily be attached to the skidtube (see Figure 3).
NOTE: If the Dart float steps are being installed with Apical floats per FAA STC SR01535LA, the step is installed higher to provide sufficient clearance.
- 3.1.5 Tighten lug bolts, do not exceed torque of 50-70 in-lb on the nuts.
CAUTION: Over-torquing the nuts could lead to structural damage of the lugs.
- 3.1.6 Install the AN4-15A/AN4C15A bolts and hardware to mount the step to the mounting lugs. Do not exceed torque of 50-70 in-lb on the nuts.
CAUTION: Over-torquing the nuts could lead to structural damage of the lugs.

NOTE: The AN4-15A/AN4C15A bolts that are used to attach the step to the D3394-041/D3394-043 Lugs on the crosstubes may be replaced with stainless steel positive locking quick release pins with a minimum double shear strength of 2400 lbs and 0.25" diameter (10700N and 6.4mm diameter) per Table 3.

Bolt	Minimum Grip	POSSIBLE QUICK RELEASE PIN REPLACEMENT
AN4-15A or AN4C15A	1.3" (33.0mm)	AVIBANK: BLC4B13S, BLC4TA13S, BLC4R13S, BLC4LA13S MS NUMBER: MS17984C413, MS17985C413, MS17986C413, MS17987C413 REID: BLRS-020, BLBS-020

Table 3: Quick Release Pin Replacements

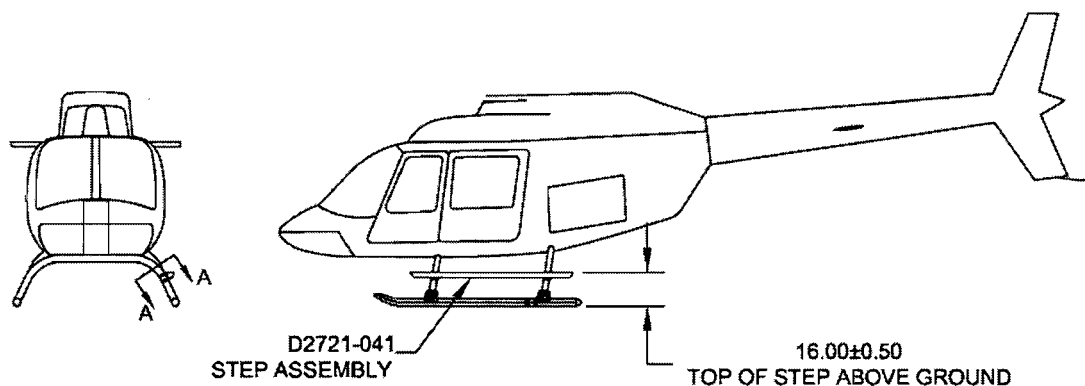
The Dart DSI9235-011 Quick Release Pip Pin Kit can be procured from Dart to provide the necessary quick release hardware.

- 3.1.7 For the installation of the Dart float steps with OEM float systems, connect the D2844/D2845 arms (which should be hanging loosely from the step) to the skidtube using the existing hardware. Tighten-up the arm bolts on the step.
- 3.1.8 If the float steps are being installed with an Apical Tri-bag float system per FAA STC SR01535LA, the D2844/D2845 arms should **not** be installed.
- 3.1.9 If the D206-628-013/-014 steps are being installed in conjunction with the D206-590-011/-021 Kwik Float System per Canadian STC SH92-65 (ref. FAA STC SH1057NE), the D2845 arms must be attached to the skidtube as shown in Figure 4.

3.2 General installation procedures for Crew and Maintenance Heli-Access-Steps™ (D206-628-015/-016/-017/-018/-025/-026/-027/-028/-035/-036/-037/-038)

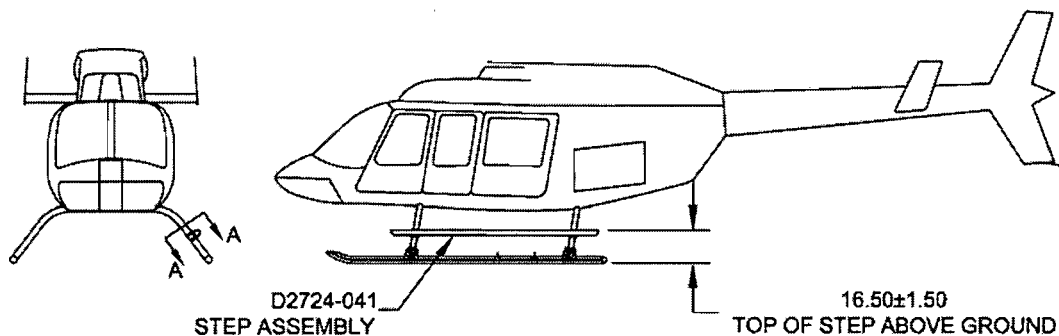
NOTE: In corrosive environments, it is recommended to coat exposed hardware with LPS Procyon after installation.

- 3.2.1 Install D3394-1/-3 Mounting Lug, D4309-1 Bushings, AN-15A bolts, and hardware onto step using hardware shown in Figures 6 to 8. Torque AN4-15A/AN4C15A bolts, do not exceed torque of 50-70 in-lb on the nuts.
CAUTION: Over-torquing the nuts could lead to structural damage of the lugs.
- 3.2.2 Locate the step and mounting lugs onto the crosstubes. Install hardware. Leave bolts loose to allow for adjustment.
- 3.2.3 Ensure step is level and at the desired height from the ground. Tighten lug bolts, do not exceed torque of 50-70 in-lb on the nuts.
CAUTION: Over-torquing the nuts could lead to structural damage of the lugs.



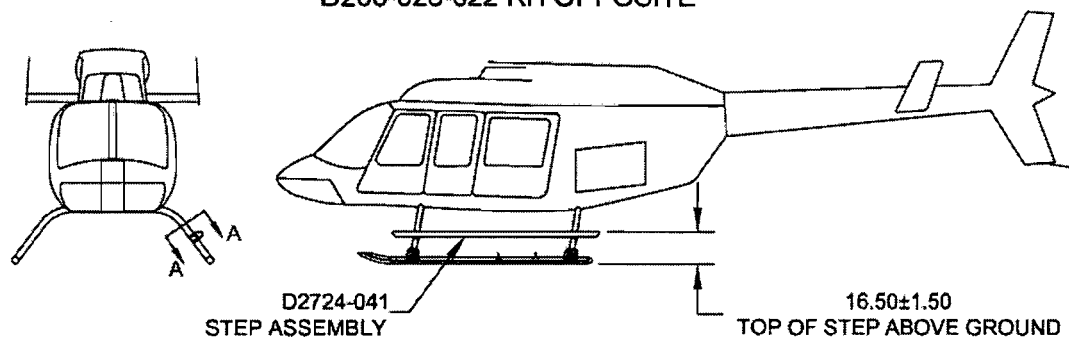
BELL 206 A/B HELI-ACCESS-STEP

D206-628-011 LH SHOWN
D206-628-012 RH OPPOSITE



BELL 206 L/L1/L3/L4 HELI-ACCESS-STEP

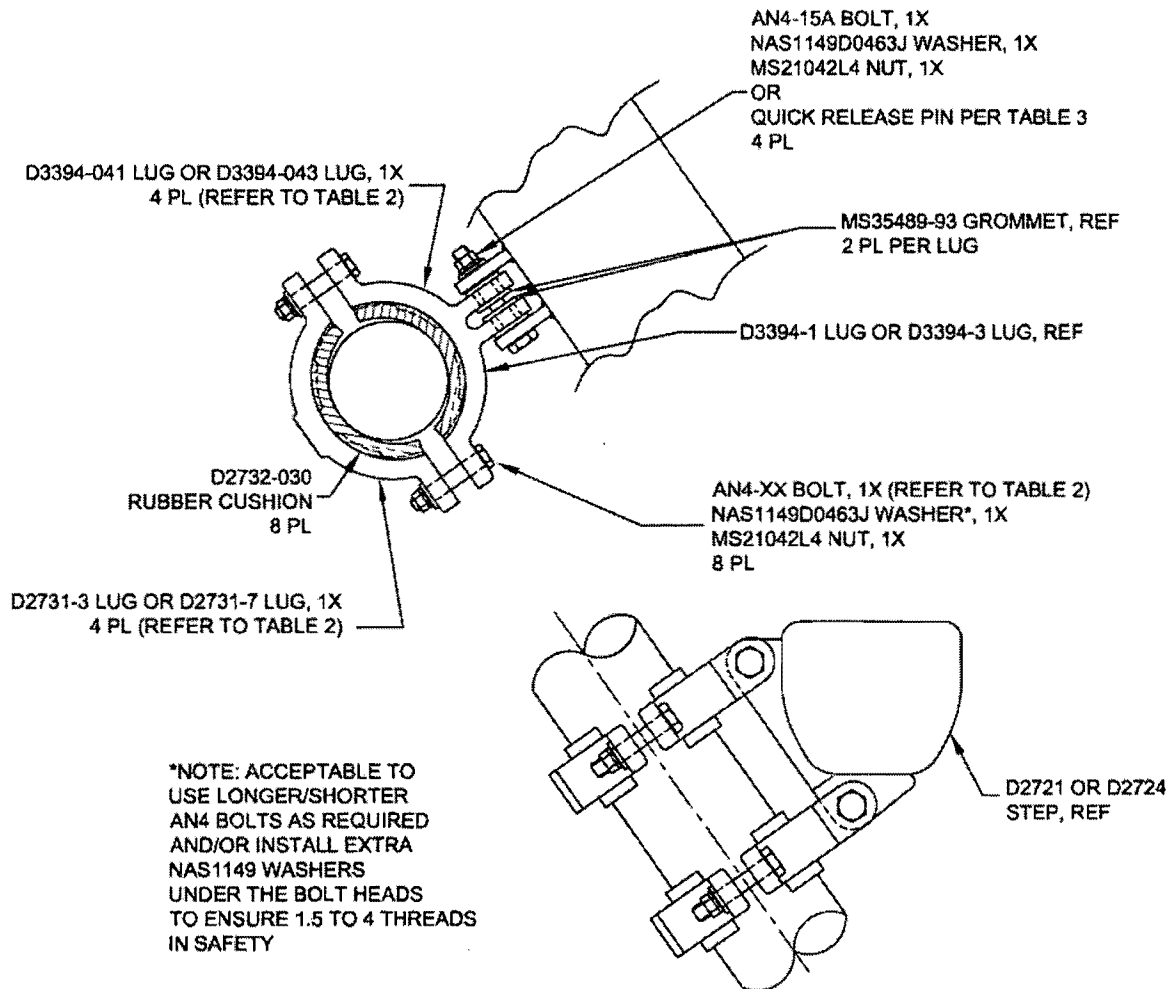
D206-628-021 LH SHOWN
D206-628-022 RH OPPOSITE



BELL 407 HELI-ACCESS-STEP

D206-628-031 LH SHOWN
D206-628-032 RH OPPOSITE

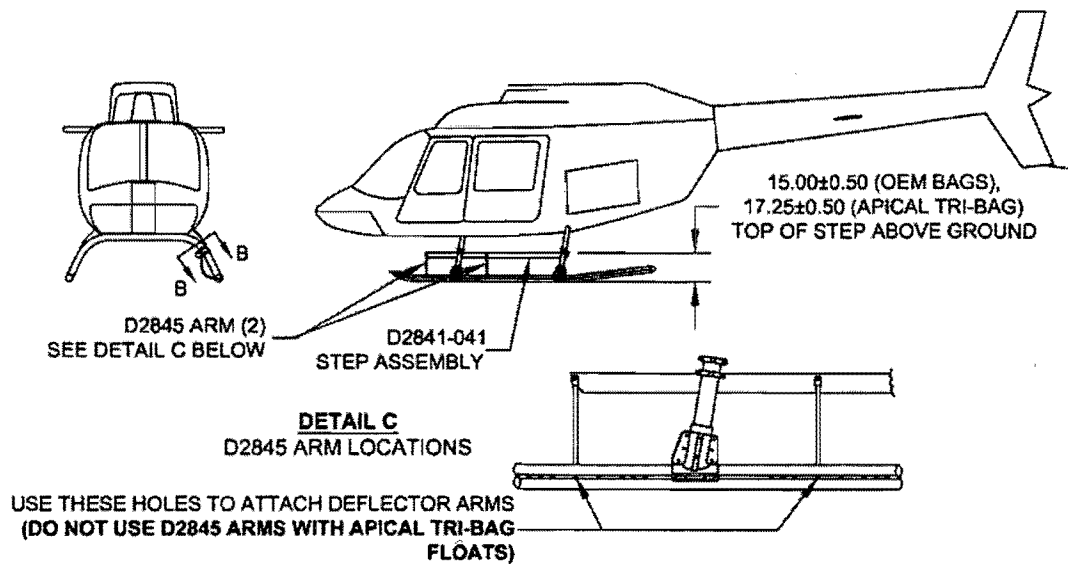
**Figure 1 – D206-628-011/-012/-021/-022/-031/-032
REGULAR DART HELI-ACCESS-STEPS™**



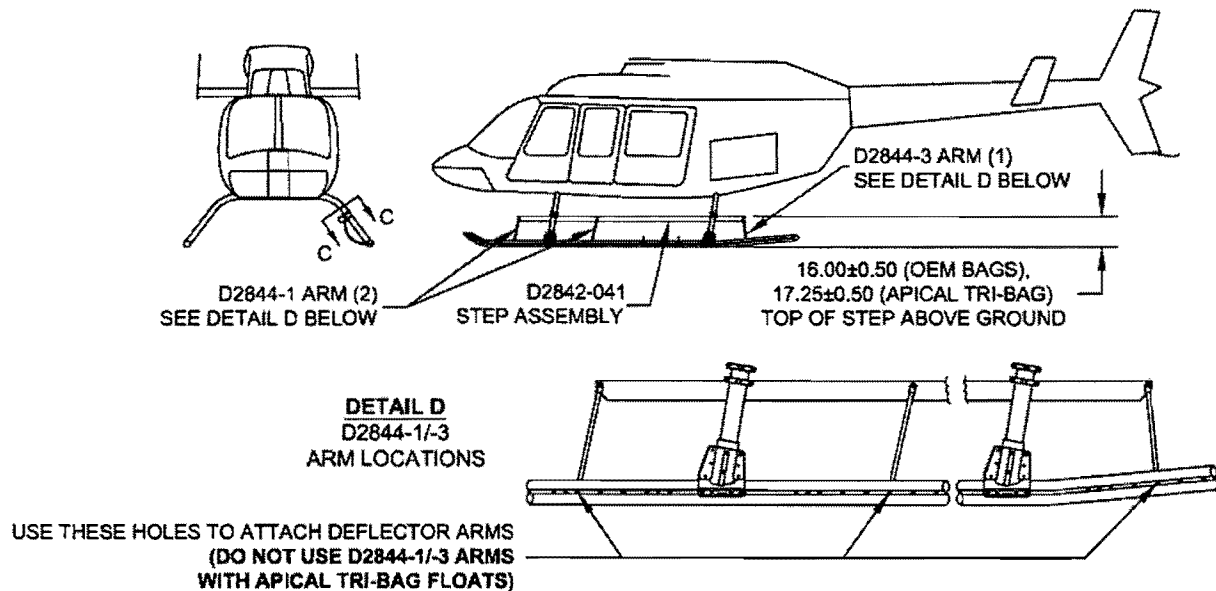
SECTION A-A

TYPICAL STEP CLAMPING DETAIL

Figure 2 – D206-628-011/-012/-021/-022/-031/-032
DART LONG HELI-ACCESS-STEPS™
CLAMPING DETAIL

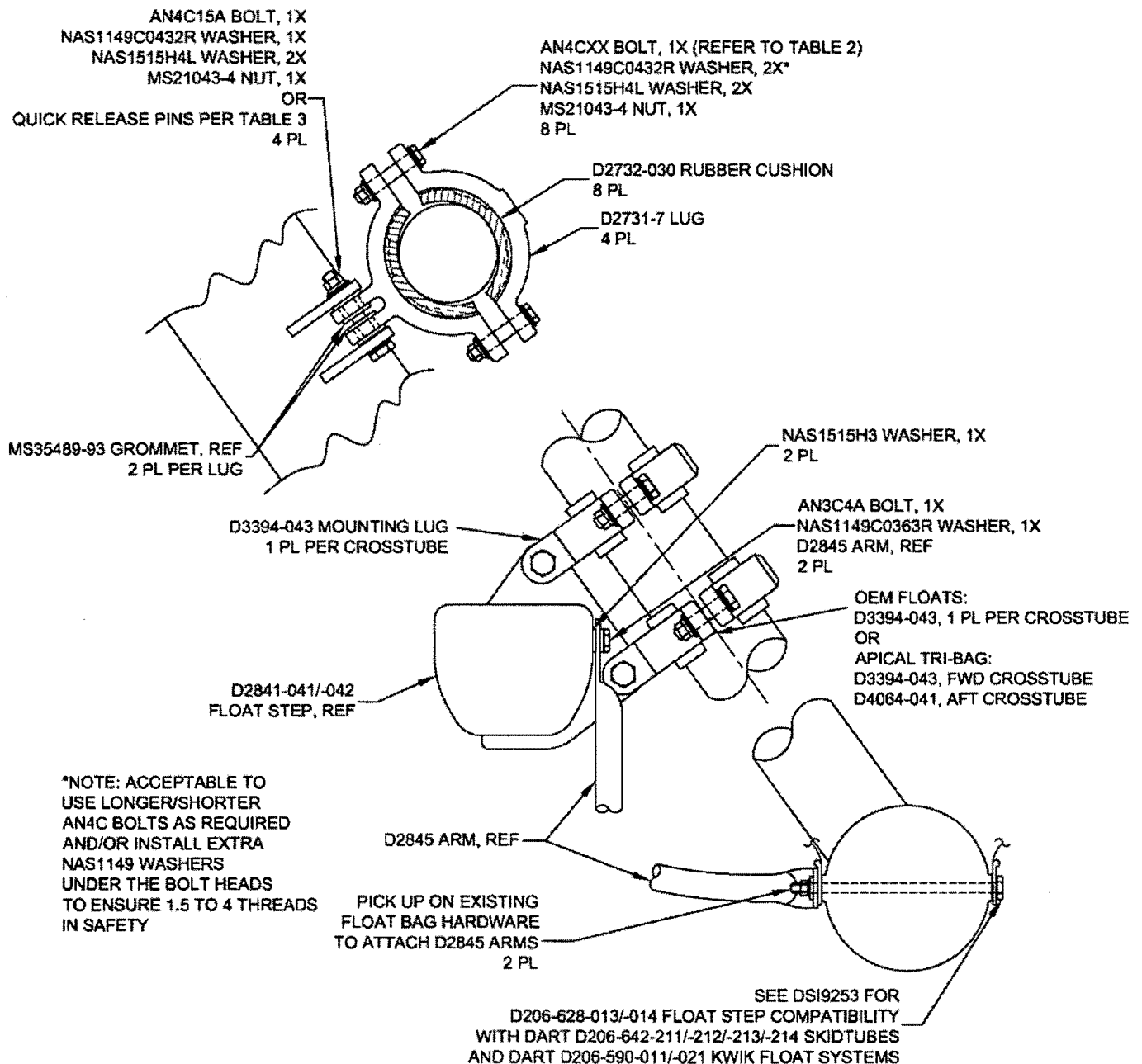


BELL 206 A/B FLOAT COMPATIBLE HELI-ACCESS-STEP
D206-628-013 LH SHOWN
D206-628-014 RH OPPOSITE



BELL 206 L/L1/L3/L4, 407
FLOAT COMPATIBLE HELI-ACCESS-STEP
D206-628-023/-033 LH SHOWN
D206-628-024/-034 RH OPPOSITE

Figure 3 – D206-628-013/-014/-023/-024/-033/-034
FLOAT COMPATIBLE DART HELI-ACCESS-STEPS™

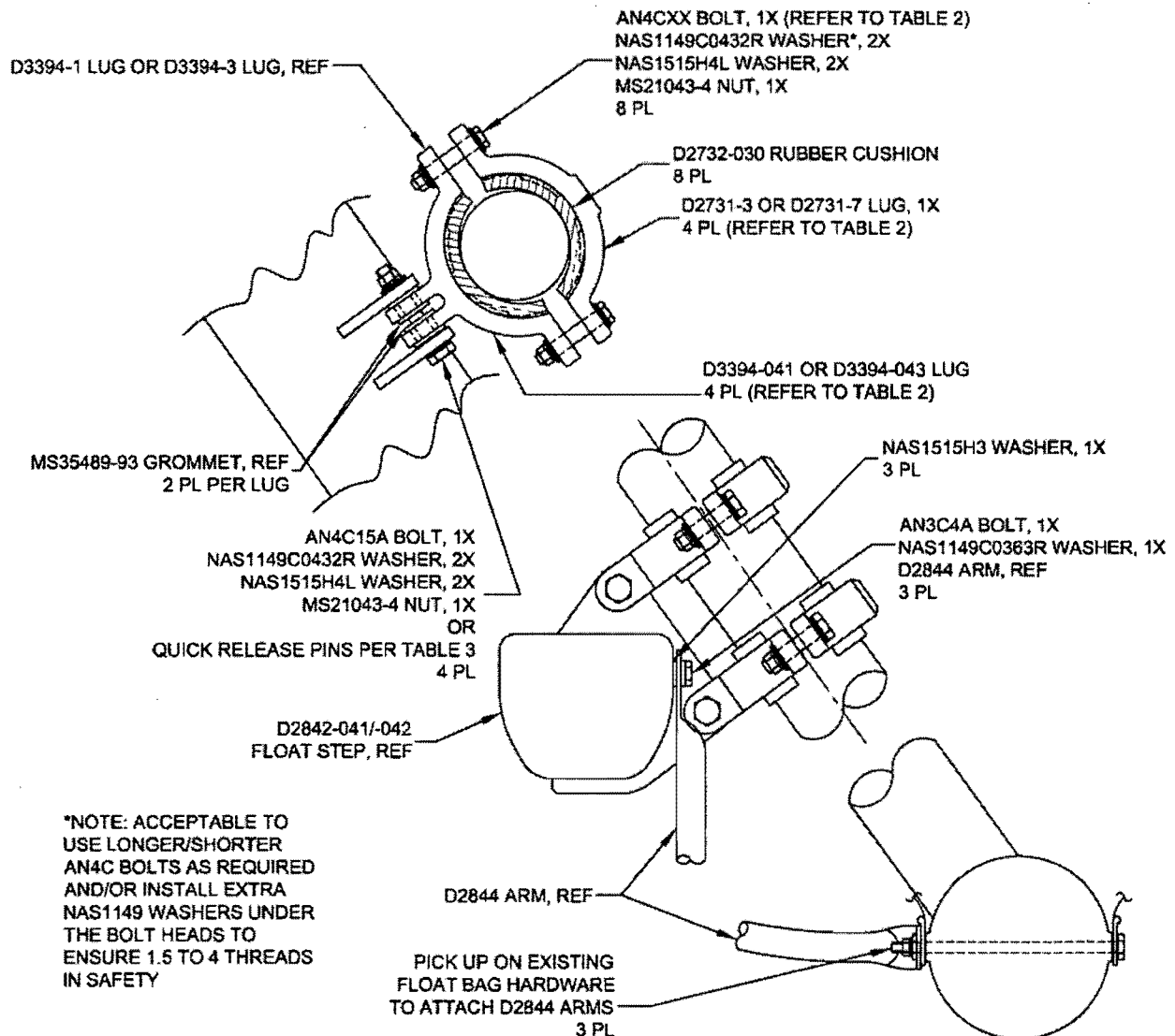


*NOTE: ACCEPTABLE TO
USE LONGER/SHORTER
AN4C BOLTS AS REQUIRED
AND/OR INSTALL EXTRA
NAS1149 WASHERS
UNDER THE BOLT HEADS
TO ENSURE 1.5 TO 4 THREADS
IN SAFETY

SECTION B-B

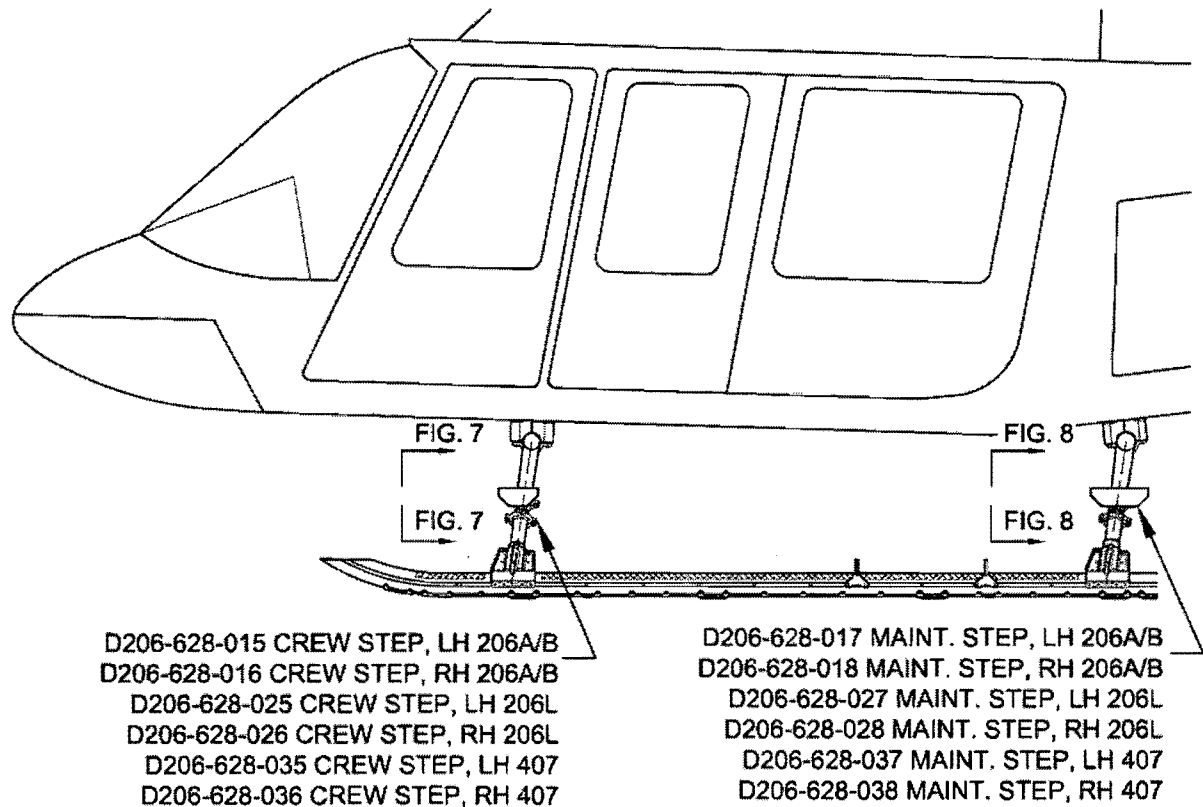
TYPICAL FLOAT STEP CLAMPING DETAIL

Figure 4 – D206-628-013/-014
FLOAT COMPATIBLE DART HELI-ACCESS-STEPS™
CLAMPING DETAIL



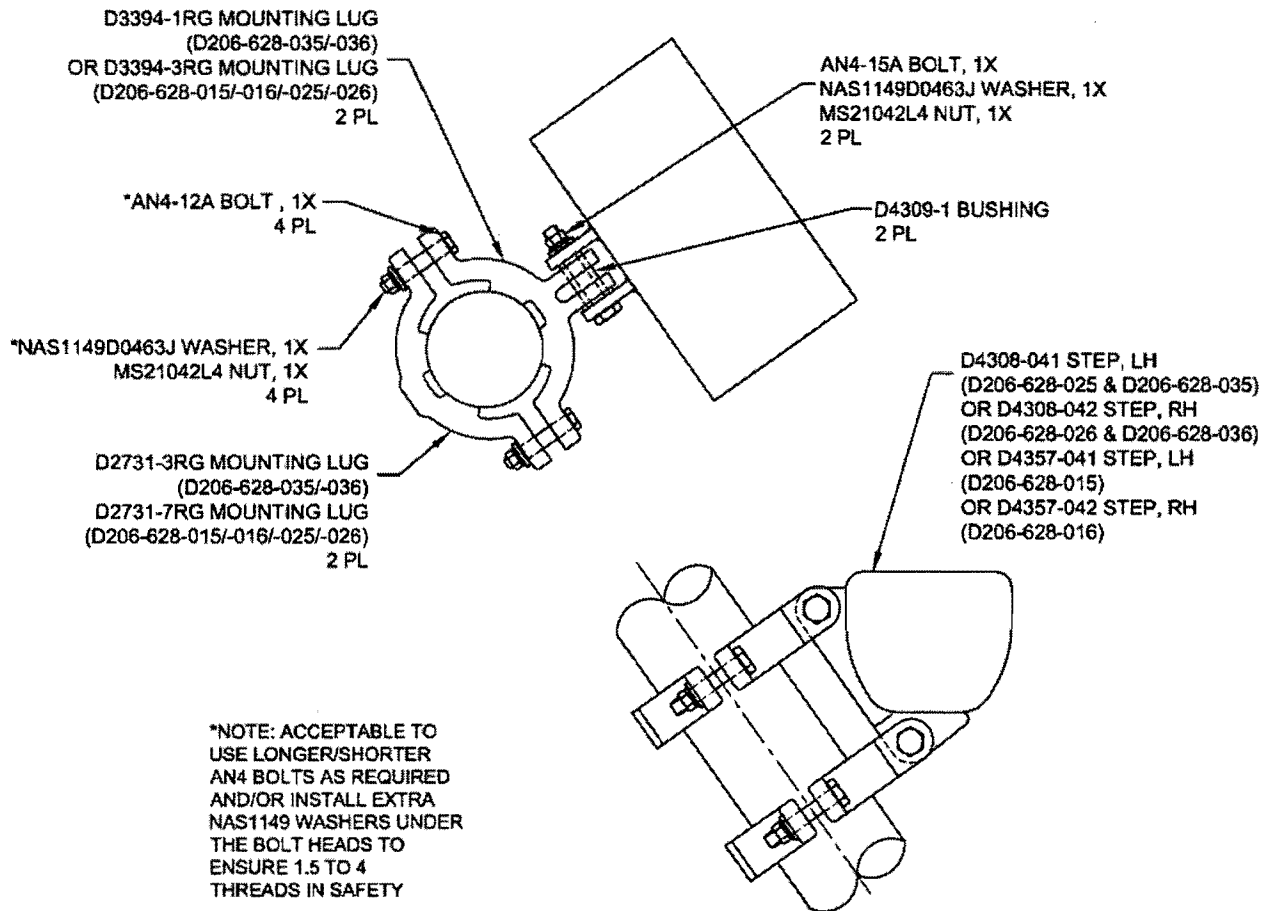
SECTION C-C
TYPICAL FLOAT STEP CLAMPING DETAIL

Figure 5 – D206-628-023/-024/-033/-034
FLOAT COMPATIBLE DART HELI-ACCESS-STEPS™
CLAMPING DETAIL



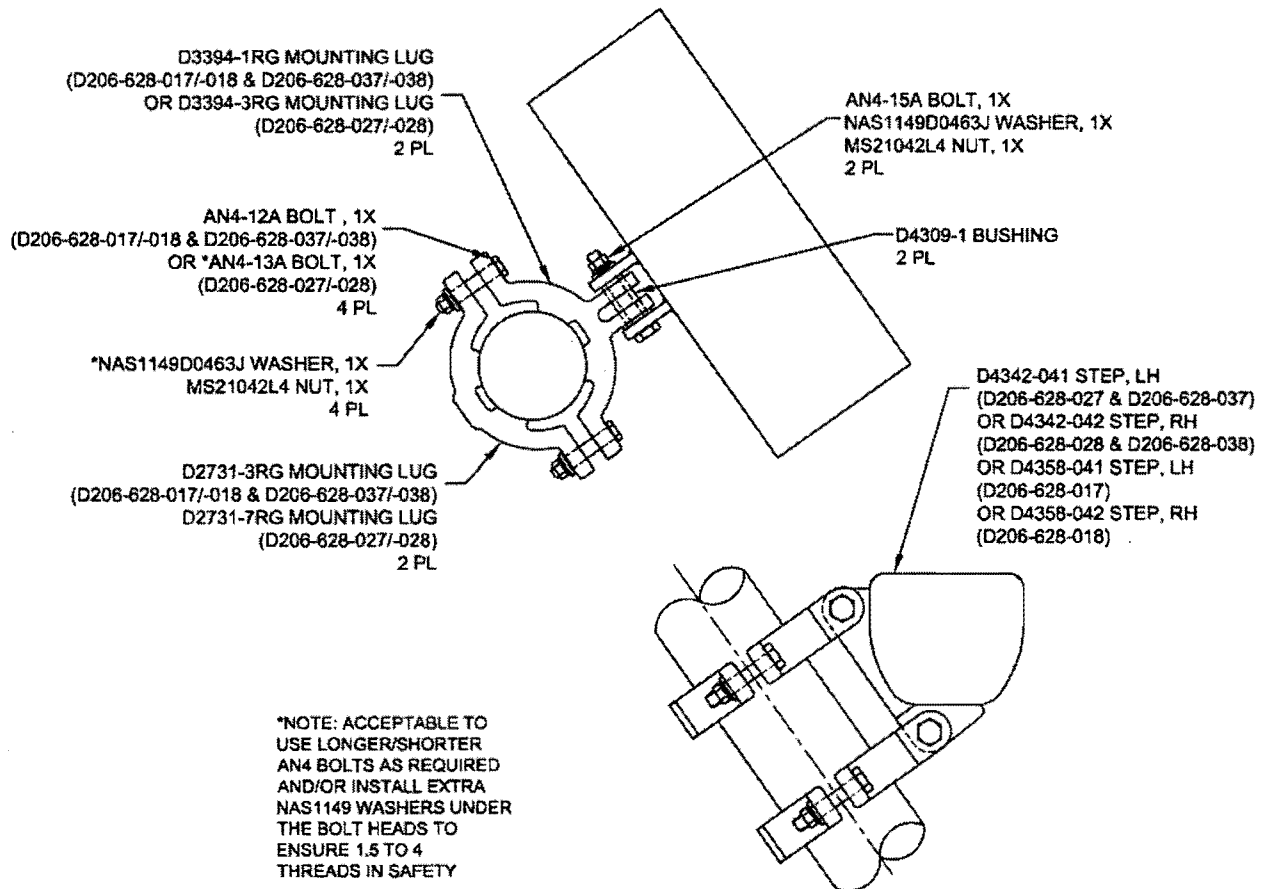
**Figure 6 – D206-628-015/-016/-017/-018/-025/-026/-027/-028
& D206-628-035/-036/-037/-038
CREW AND MAINTENANCE STEPS**

(D206-628-025 CREW STEP LH AND D206-628-027 CREW STEP LH SHOWN)



**Figure 7 – D206-628-015/-016/-025/-026/-035/-036
CREW STEP
CLAMPING DETAIL**

(LH STEP SHOWN, RH OPPOSITE)



**Figure 8 – D206-628-017/-018/-027/-028/-037/-038
MAINTENANCE STEP
CLAMPING DETAIL**

(LH STEP SHOWN, RH OPPOSITE)

4.0 WEIGHT AND BALANCE

The following is the net weight increase associated with each installation

4.1 206 A/B AIRCRAFT

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-628-011 206 A/B, LH	7.56 lb 3.43 Kg	- 34.7 in - 0.88 m	- 262.3 in-lb - 3.02 m-Kg	99.0 in 2.51 m	748.4 in-lb 8.61 m-Kg
D206-628-012 206A/B, RH	7.56 lb 3.43 Kg	34.7 in 0.88 m	262.3 in-lb 3.02 m-Kg	99.0 in 2.51 m	748.4 in-lb 8.61 m-Kg
D206-628-013 206 A/B, LH	7.83 lb 3.55 Kg	- 26.8 in - 0.68 m	- 209.8 in-lb - 2.41 m-Kg	89.8 in 2.28 m	703.1 in-lb 8.09 m-Kg
D206-628-014 206A/B, RH	7.83 lb 3.55 Kg	26.8 in 0.68 m	209.8 in-lb 2.41 m-Kg	89.8 in 2.28 m	703.1 in-lb 8.09 m-Kg
D206-628-015 206A/B, LH	1.36 lb 0.62 kg	- 34.7 in - 0.88 m	-47.2 in-lb -0.55 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-016 206A/B, RH	1.36 lb 0.62 kg	34.7 in 0.88 m	47.2 in-lb 0.55 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-017 206A/B, LH	1.54 lb 0.70 kg	- 26.8 in - 0.68 m	-41.3 in-lb -0.48 m-Kg	126.7 in 3.21 m	195.1 in-lb 2.25 m-Kg
D206-628-018 206A/B, RH	1.54 lb 0.70 kg	26.8 in 0.68 m	41.3 in-lb 0.48 m-Kg	126.7 in 3.21 m	195.1 in-lb 2.25 m-Kg

4.2 206 L/L1/L3/L4 AIRCRAFT

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-628-021 206 L/L1/L3/L4, LH	9.79 lb 4.44 Kg	- 40.7 in - 1.03 m	- 398.5 in-lb - 4.57 m-Kg	112.7 in 2.86 m	1103.3 in-lb 12.70 m-Kg
D206-628-022 206 L/L1/L3/L4, RH	9.79 lb 4.44 Kg	40.7 in 1.03 m	398.5 in-lb 4.57 m-Kg	112.7 in 2.86 m	1103.3 in-lb 12.70 m-Kg
D206-628-023 206 L/L1/L3/L4, LH	11.66 lb 5.29 Kg	- 33.3 in - 0.85 m	- 388.3 in-lb - 4.50 m-Kg	111.8 in 2.84 m	1303.6 in-lb 15.02 m-Kg
D206-628-024 206 L/L1/L3/L4, RH	11.66 lb 5.29 Kg	33.3 in 0.85 m	388.3 in-lb 4.50 m-Kg	111.8 in 2.84 m	1303.6 in-lb 15.02 m-Kg
D206-628-025 206 L/L1/L3/L4, LH	1.36 lb 0.62 kg	- 40.7 in - 1.03 m	55.4 in-lb 0.64 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-026 206 L/L1/L3/L4, RH	1.36 lb 0.62 kg	40.7 in 1.03 m	-55.4 in-lb -0.64 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-027 206 L/L1/L3/L4, LH	1.54 lb 0.70 kg	- 40.7 in - 1.03 m	55.4 in-lb 0.64 m-Kg	154.4 in 3.92 m	237.8 in-lb 3.68 m-Kg
D206-628-028 206 L/L1/L3/L4, RH	1.54 lb 0.70 kg	40.7 in 1.03 m	-55.4 in-lb -0.64 m-Kg	154.4 in 3.92 m	237.8 in-lb 3.68 m-Kg

4.3 407 AIRCRAFT

Installation	Weight	LATERAL		LONGITUDINAL	
		Arm	Moment	Arm	Moment
D206-628-031 407, LH	9.79 lb 4.44 Kg	- 40.7 in - 1.03 m	- 398.5 in-lb - 4.57 m-Kg	112.7 in 2.86 m	1103.3 in-lb 12.70 m-Kg
D206-628-032 407, RH	9.79 lb 4.44 Kg	40.7 in 1.03 m	398.5 in-lb 4.57 m-Kg	112.7 in 2.86 m	1103.3 in-lb 12.70 m-Kg
D206-628-033 407, LH	11.66 lb 5.29 Kg	- 33.3 in - 0.85 m	- 388.3 in-lb - 4.50 m-Kg	111.8 in 2.84 m	1303.6 in-lb 15.02 m-Kg
D206-628-034 407, RH	11.66 lb 5.29 Kg	33.3 in 0.85 m	388.3 in-lb 4.50 m-Kg	111.8 in 2.84 m	1303.6 in-lb 15.02 m-Kg
D206-628-035 407, LH	1.36 lb 0.62 kg	- 40.0 in - 1.02 m	- 54.4 in-lb - 0.63 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-036 407, RH	1.36 lb 0.62 kg	40.0 in 1.02 m	54.4 in-lb 0.63 m-Kg	72.2 in 1.83 m	98.2 in-lb 1.13 m-Kg
D206-628-037 407, LH	1.54 lb 0.70 kg	- 40.0 in - 1.02 m	- 61.6 in-lb - 0.71 m-Kg	154.4 in 3.92 m	237.8 in-lb 3.68 m-Kg
D206-628-038 407, RH	1.54 lb 0.70 kg	40.0 in 1.02 m	61.6 in-lb 0.71 m-Kg	154.4 in 3.92 m	237.8 in-lb 3.68 m-Kg

5.1 D206-628-011/-012/-021/-022/-031/-032 REGULAR DART HELI-ACCESS- STEPS™ PARTS LIST

Qty -011	Qty -012	Qty -021	Qty -022	Qty -031	Qty -032	Part Number	Description
X						D206-628-011	206 A/B STEP INSTALLATION LH
	X					D206-628-012	206 A/B STEP INSTALLATION RH
		X				D206-628-021	206 L/L1/L3/L4 STEP INSTALLATION LH
			X			D206-628-022	206 L/L1/L3/L4 STEP INSTALLATION RH
				X		D206-628-031	407 STEP INSTALLATION LH
					X	D206-628-032	407 STEP INSTALLATION RH
1						D2721-041	STEP ASSEMBLY LH
	1					D2721-042	STEP ASSEMBLY RH
		1		1		D2724-041	STEP ASSEMBLY LH
			1		1	D2724-042	STEP ASSEMBLY RH
				4	4	D2731-3	MOUNTING LUG
4	4	4	4			D2731-7	MOUNTING LUG
8	8	8	8	8	8	D2732-030	RUBBER CUSHION
				4	4	D3394-041	MOUNTING LUG
				4	4	*D3394-1	*MOUNTING LUG
				8	8	*MS35489-93	*GROMMET
4	4	4	4			D3394-043	MOUNTING LUG
4	4	4	4			*D3394-3	*MOUNTING LUG
8	8	8	8			*MS35489-93	*GROMMET
4	4			4	4	AN4-13A	BOLT
4	4	4	4	4	4	AN4-14A	BOLT
4	4	8	8	4	4	AN4-15A	BOLT
12	12	12	12	12	12	NAS1149D0463J	WASHER (AN960JD416)
12	12	12	12	12	12	MS21042L4	NUT (OR MS21042-4)

*DENOTES THAT PART IS INCLUDED IN ASSEMBLY ABOVE

5.2 D206-628-013/-014/-023/-024/-033/-033 FLOAT COMPATIBLE DART HELI-ACCESS-STEPS™ PARTS LIST

Qty -013	Qty -014	Qty -023	Qty -024	Qty -033	Qty -034	Part Number	Description
X						D206-628-013	206 A/B FLOAT STEP INST. LH
	X					D206-628-014	206 A/B FLOAT STEP INST. RH
		X				D206-628-023	206 L/L1/L3/L4 FLOAT STEP INST. LH
			X			D206-628-024	206 L/L1/L3/L4 FLOAT STEP INST. RH
				X		D206-628-033	407 FLOAT STEP INST. LH
					X	D206-628-034	407 FLOAT STEP INST. RH
				4	4	D2731-3	MOUNTING LUG
4	4	4	4			D2731-7	MOUNTING LUG
8	8	8	8	8	8	D2732-030	RUBBER CUSHION
1						D2841-041	FLOAT STEP ASSEMBLY LH
	1					D2841-042	FLOAT STEP ASSEMBLY RH
		1		1		D2842-041	FLOAT STEP ASSEMBLY LH
			1		1	D2842-042	FLOAT STEP ASSEMBLY RH
		2	2	2	2	D2844-1	ARM
		1	1	1	1	D2844-3	ARM
2	2					D2845	ARM
				4	4	D3394-041	MOUNTING LUG
				4	4	*D3394-1	*LUG
4	4			8	8	*MS35489-93	*GROMMET
4	4	4	4			D3394-043	MOUNTING LUG
4	4	4	4			*D3394-3	*LUG
8	8	8	8			*MS35489-93	*GROMMET
1	1					D4064-041	MOUNTING LUG
1	1					*D4064-1	*LUG
2	2					*MS35489-93	*GROMMET
2	2	3	3	3	3	AN3C4A	BOLT
4	4					AN4C13A	BOLT
4	4	4	4	8	8	AN4C14A	BOLT
4	4	8	8	4	4	AN4C15A	BOLT
2	2	3	3	3	3	NAS1149C0363R	WASHER (OR AN960C10)
16	16					NAS1149C0463R	WASHER (OR AN960C416)
8	8	24	24	24	24	NAS1149C0432R	WASHER (OR AN960C416L)
24	24	24	24	24	24	NAS1515H4L	WASHER
12	12	12	12	12	12	MS21043-4	NUT
2	2	3	3	3	3	NAS1515H3	WASHER

*DENOTES THAT PART IS INCLUDED IN ASSEMBLY ABOVE

5.3 QUICK RELEASE PIP PIN KIT

Qty -011	Part Number	Description
X	DSI9235-011	QUICK RELEASE PIP PIN KIT
4	BLRS-020	QUICK RELEASE PIN

5.4 CREW STEP PARTS LIST

Qty -015	Qty -016	Qty -025	Qty -026	Qty -035	Qty -036	Part Number	Description
X						D206-628-015	CREW STEP, LH 206A/B
	X					D206-628-016	CREW STEP, RH 206A/B
		X				D206-628-025	CREW STEP, LH 206L/L-1/L-3/L-4
			X			D206-628-026	CREW STEP, RH 206L/L-1/L-3/L-4
				X		D206-628-035	CREW STEP, LH 407
					X	D206-628-036	CREW STEP, RH 407
				2	2	D2731-3RG	MOUNTING LUG
2	2	2	2			D2731-7RG	MOUNTING LUG
				2	2	D3394-1RG	MOUNTING LUG
2	2	2	2			D3394-3RG	MOUNTING LUG
		1		1		D4308-041	CREW STEP, LH
			1		1	D4308-042	CREW STEP, RH
2	2	2	2	2	2	D4309-1	BUSHING
1						D4357-041	CREW STEP, LH
	1					D4357-042	CREW STEP, RH
		4	4			AN4-11A	BOLT
4	4	4	4	4	4	AN4-12A	BOLT
2	2	2	2	2	2	AN4-15A	BOLT
6	6	6	6	6	6	MS21042-4	NUT
6	6	6	6	6	6	NAS1149D0463J	WASHER (AN960JD416)

5.5 MAINTENANCE STEP PARTS LIST

Qty -017	Qty -018	Qty -027	Qty -028	Qty -037	Qty -038	Part Number	Description
X						D206-628-017	MAINTENANCE STEP, LH 206A/B
	X					D206-628-018	MAINTENANCE STEP, RH 206A/B
		X				D206-628-027	MAINTENANCE STEP, LH 206L/L-1/L-3/L-4
			X			D206-628-028	MAINTENANCE STEP, RH 206L/L-1/L-3/L-4
				X		D206-628-037	MAINTENANCE STEP, LH 407
					X	D206-628-038	MAINTENANCE STEP, RH 407
2	2			2	2	D2731-3RG	MOUNTING LUG
		2	2			D2731-7RG	MOUNTING LUG
2	2			2	2	D3394-1RG	MOUNTING LUG
		2	2			D3394-3RG	MOUNTING LUG
2	2	2	2	2	2	D4309-1	BUSHING
		1		1		D4342-041	MAINTENANCE STEP, LH
			1		1	D4342-042	MAINTENANCE STEP, RH
1						D4358-041	MAINTENANCE STEP, LH
	1					D4358-042	MAINTENANCE STEP, RH
4	4	4	4	4	4	AN4-12A	BOLT
		4	4			AN4-13A	BOLT
2	2	2	2	2	2	AN4-15A	BOLT
6	6	6	6	6	6	MS21042-4	NUT
6	6	6	6	6	6	NAS1149D0463J	WASHER (AN960JD416)

DART

DESIGN PH	DRAWN BY PH	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED 	APPROVED 	DRAWING NO. DSI 9253	REV. B SHEET 1 OF 1
DATE 05.10.14	TITLE 206 A/B FLOAT STEP MOD. KIT		SCALE NTS
A	03.02.26	NEW ISSUE	
B	05.10.14	REDESIGN	

DART SERVICE INSTRUCTION

TO AMEND INSTALLATION DRAWING D206-628 REV. D/E

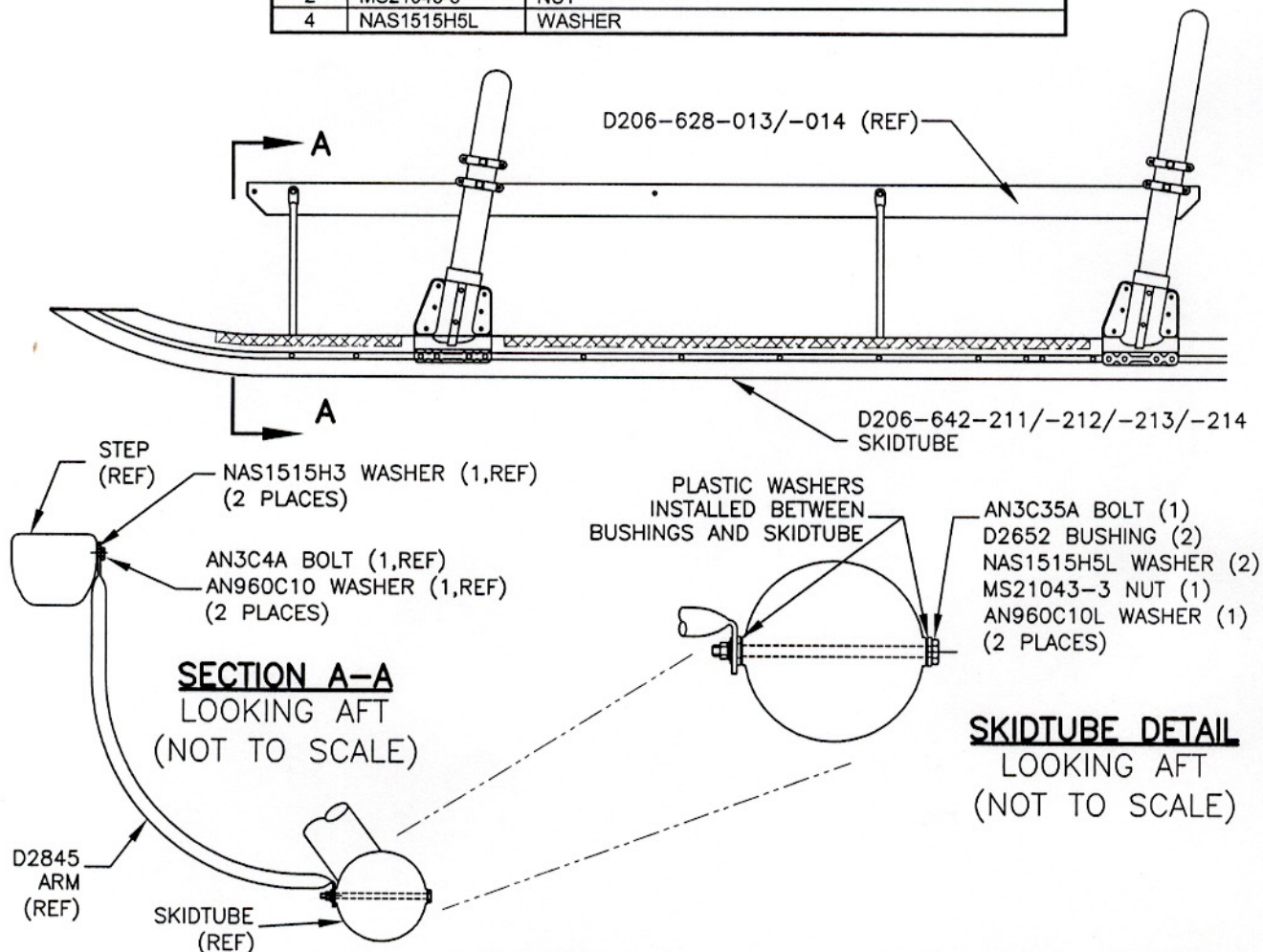
REF. CANADIAN STC: SH98-14

REF. FAA STC: SA00500SE

To make the D206-628-013/-014 Float Steps compatible with both the Dart D206-642-211/-212/-213/-214 Skidtubes and the Dart D206-590-011/-021 Kwik Float Emergency Floatation System. Install D2845 Arms between step and skidtube as shown

The following DSI9253-011 kit is available to make these changes possible:

-011	Part No.	Description
X	DSI9253-011	206 A/B FLOAT STEP MODIFICATION KIT
2	AN3C35A	BOLT
2	AN960C10L	WASHER
4	D2652	BUSHING
2	MS21043-3	NUT
4	NAS1515H5L	WASHER



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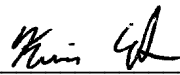
MAINTENANCE MANUAL SUPPLEMENT

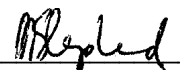
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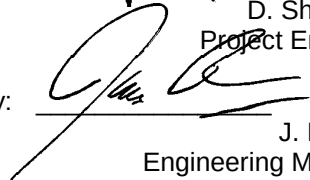
Heli-Access-StepTM

BELL 206/206A/206A-1/206B/206B-1/206L/206L-1/206L-3/206L-4/407 MODELS

FAA Project Number: ST2807SE-R

Prepared By: 
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Revision: **B**
Date: 98.10.15



THIS SUPPLEMENT IS TO BE USED IN CONJUNCTION WITH:

- a) The aircraft Maintenance and Overhaul Instruction Manual.
- b) AC.43.13.1A and 2A, acceptable methods, techniques, and practices.
- c) Dart Installation Instructions IIN-D206-628.

AIRWORTHINESS LIMITATIONS

300 HOUR INSPECTION TO COINCIDE WITH AIRFRAME INSPECTION

- 1. All visible areas of the installation should be inspected visually for corrosion, particularly when the helicopter is flown near or over salt water or in areas of high industrial emissions.
- 2. Remove clamps from crosstubes and inspect for corrosion or pitting.
- 3. Inspect height of step. Ensure top of step is within the specified installation height outlined in the installation instructions IIN-D206-628, to within $\pm 0.25"$. If it is not, loosen clamps and re-position step at correct height above the ground. Tighten clamps per Installation Instructions IIN-D206-628.
- 4. Visually inspect the step welds for cracking.
- 5. Clean off flaking NON-SKID surface and touch-up with Black Anti-Skid per MIL-W-5044 Type 2.
- 6. Replace damaged or worn parts per Dart Installation Instructions IIN-D206-628.