

United States of America

Department of Transportation—Federal Aviation Administration

Supplemental Type Certificate

Number SA00701SE

This certificate, issued to **Precise Flight, Inc.**
63354 Rowell Butte Road
Bend, OR 97701

certifies that the change in the type design for the following product with the limitations and conditions therefor as specified herein meets the airworthiness requirements of Part 21 of the Regulations.

Original Product—Type Certificate Number: *See attached FAA Approved Model List (AML)
Make: No. SA00701SE for list of approved airplane
Model: models and applicable airworthiness regulations

Description of the Type Design Change: Installation of Precise Flight Pulselite System in accordance with Precise Flight, Inc. Engineering drawings 590P0001, Revision -, dated January 26, 1999, and 590P0002, Revision -, dated January 26, 1999, 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 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, and FAA Approved Model List (AML) No. SA00701SE, and Precise Flight, Inc. FAA approved Rotorcraft Flight Manual Supplement for Robinson R22 or R44, dated May 18, 1999, or later FAA approved revision, 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: January 14, 1999

Date issued:

Date of issuance: May 18, 1999

Date amended: November 7, 2003



By signature of the Administrator

(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.

Document Number: 000PMAN0002

Aircraft Serial Number: _____



STC Number: SA00560SE
SA00701SE
SA2622NM
SA01129SE
SA4005NM
ST00717SE
ST00733SE
SH3319NM

63354 POWELL BUTTE ROAD
BEND, OR 97701
800- 547-2558

**PulseLite® Instructions for Continued Airworthiness
STC Number SA00560SE, SA00701SE, SA01129SE, SA2622NM,
SA4005NM, ST00717SE, ST00733SE and SH3319NM**

NOTICE

The Airworthiness Limitations section (Section 2.0) is FAA Approved and Specifies maintenance required under Sections 43.16 and 91.403 of the Federal Aviation Regulations unless an alternative program has been FAA Approved.

These Documents Must be Kept with the Aircraft Records

THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION ON THE PRECISE FLIGHT, INC. (PFI) COMPANY AND ITS RECEIPT OR POSSESSION DOES NOT CONVEY ANY RIGHTS TO REPRODUCE, DISCLOSE ITS CONTENTS, OR TO MANUFACTURE, USE, OR SELL ANYTHING IT MAY DESCRIBE. REPRODUCTION, DISCLOSURE, OR USE WITHOUT SPECIFIC WRITTEN AUTHORIZATION OF PFI IS STRICTLY FORBIDDEN.



**INSTALLATION
REPORT NO.** PPRI-2000
071384
86-1

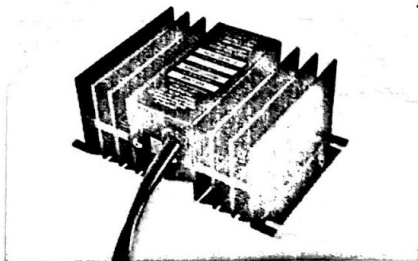
Document Number: 015PMAN0001
Aircraft Serial Number: _____

STC Number: SA4005NM
SH3319NM
SA00560SE

63354 POWELL BUTTE ROAD
BEND, OR 97701
800- 547-2558

Pulselite® Model 1220 / 2410-2 Installation Manual

FAA STC Number SA4005NM
FAA STC Number SH3319NM
FAA STC Number SA00560SE



NOTICE

These documents must be kept with the Aircraft Records

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Transport Canada Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH04-17

Issue No.: 1

Approval Date: March 31, 2004

Issue Date: March 31, 2004

Responsible Office:

Ontario

Aircraft/Engine Type or Model:

ROBINSON R44

Canadian Type Certificate or Equivalent:

H-97

Description of Type Design Change:

Cargo Mirror Installation

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

Installation in accordance with :

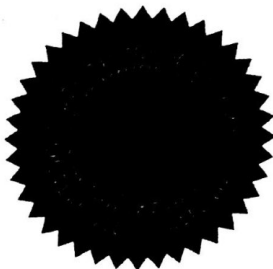
Dart Aerospace Ltd. Installation Instructions "IIN-D044-715" rev. A dated 04.01.20 or later approved revision.

Instructions for Continued Airworthiness:

Dart Aerospace Ltd Instructions for Continued Airworthiness "ICA-D044-715" rev. 0 dated Mar. 31, 2004 or later accepted revision.

— End —

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.



Alex Pompei

Alex Pompei
For Minister of Transport

Canada

United States of America
Department of Transportation -- Federal Aviation Administration

Supplemental Type Certificate

IMPORT

Number SR01937NY

This certificate is issued to

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7

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 27 of the Federal Aviation Regulations.

Original Product -- Type Certificate Number: H11NM

Make: Robinson

Model: R44

Description of Type Design Change:

The installation of a Cargo Mirror in accordance with Dart Aerospace Ltd. Installation Instructions IIN-D044-715, Rev. A dated January 20, 2004 or later Transport Canada approved revision.

Limitations and Conditions:

1. Inspection of the rotorcraft is to be done in accordance with Dart Aerospace Ltd. Instruction for Continued Airworthiness ICA-D044-715, Rev. 0 dated February 5, 2004 or later Transport Canada accepted revision.
2. Compatibility of this design change with previously approved modifications must be determined by the installer.
3. 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: April 5, 2004

Date of issuance: July 28, 2004

Date issued:

Date amended:

By direction of the Administrator



Vito A. Pulera
(Signature)

Vito A. Pulera
Manager
New York 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.

DART

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DART

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OR
COMMENTS?**

tel: 1 613 632 5200
after hours: 1 613 676 0992
sales: 1 613 632 3336
support@dartaero.com
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PEEL HERE

INSTALLATION INSTRUCTIONS

IIN-D044-719

Cabin Floor Protectors

ROBINSON R44 MODELS

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-Q-01

APPROVED

BY: D. Shepherd
D. SHEPHERD (DE # 02)

DATE: JUN. 10, 2004
CERT. NO.: SH04-40
ISSUE NO.: #1

Prepared By:

C. Provencal

C. Provencal
Mechanical Designer

Checked By:

D. Shepherd

D. Shepherd, P. Eng.
DE #02

Released By:

D. Shepherd

D. Shepherd, P. Eng.
DE #02

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Revision: **A**

Date: 04.06.10



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PEEL HERE

INSTALLATION INSTRUCTIONS

IIN-D044-715

Cargo Mirror Installation

ROBINSON R44 MODELS

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY:	<u>D. Shepherd</u> D. SHEPHERD (DE # 02)
DATE:	<u>JAN. 20 2004</u>
CERT. NO.:	_____
ISSUE NO.:	<u>#1</u>

Prepared By: C. Provencal
C. Provencal
Mechanical Designer

Checked By: D. Shepherd
D. Shepherd, P.Eng.
DE #02

Released By: D. Shepherd
D. Shepherd, P. Eng.
DE #02

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Revision: **A**
Date: 04.01.20



DESIGN <i>[Signature]</i>	DRAWN BY <i>[Signature]</i>	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED <i>[Signature]</i>	APPROVED <i>[Signature]</i>	DRAWING NO. DSI 9284	REV. A SHEET 1 OF 1
DATE 04.06.25		TITLE MIRROR/FLOAT COMPATIBILITY	SCALE NTS
A	04.06.25	NEW ISSUE	

DART SERVICE INSTRUCTION
TO AMEND INSTALLATION INSTRUCTIONS IIN-D044-715 REV. A
(REF. CANADIAN STC: SH04-17)
AND INSTALLATION INSTRUCTIONS IIN-D022-716 REV. A
(REF. CANADIAN STC: SH04-12)

THE D022-716-011 / D044-715-011 MIRROR INSTALLATIONS ARE NOT COMPATIBLE WITH POP-UP FLOATS. IF THE MIRROR IS INSTALLED, THE POP-UP FLOATS CAN BE INSTALLED, BUT SHOULD BE DISABLED. IF THE POP-UP FLOATS MUST BE OPERATIONAL, THE MIRROR MUST BE TEMPORARILY REMOVED PER ICA-D022-716/ICA-D044-715 AS APPLICABLE.

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-Q-01
APPROVED
BY: <i>[Signature]</i> D. SHEPHERD (DE # 02)
DATE: 04.06.25
CERT. NO.: SH04-17
ISSUE NO.: 1

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-Q-01
APPROVED
BY: <i>[Signature]</i> D. SHEPHERD (DE # 02)
DATE: 04.06.25
CERT. NO.: SH04-12
ISSUE NO.: 1

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United States of America
Department of Transportation -- Federal Aviation Administration
Supplemental Type Certificate
IMPORT

Number SR02051NY

This certificate issued to
Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

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 27 of the Federal Aviation Regulations.

Original Product -- Type Certificate Number: H11NM
Make: Robinson
Model: R44, R44 II

Description of Type Design Change:

Installation of Cabin Floor Protectors Kit must be done in accordance with Dart Aerospace Ltd. Installation Instructions, IIN-D044-719, Rev. A, dated June 10, 2004, or later Transport Canada approved revisions.

Limitations and Conditions:

1. Dart Aerospace Ltd. Instructions for Continued Airworthiness ICA-D044-719, Rev. 0, Transport Canada accepted, dated August 18, 2004, or later Transport Canada accepted revision, is required for this installation.
2. Compatibility of this design change with previously approved modifications must be determined by the installer.
3. 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: September 08, 2004

Date issued:

Date of issuance: January 27, 2005

Date amended:



By direction of the Administrator

Vito A. Pulera

(Signature)

Vito A. Pulera
Manager
New York 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.



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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

ICA-D044-719

Cabin Floor Protectors

ROBINSON R44 MODELS

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
AUG 18 2004	
ACCEPTED	
BY	<i>[Signature]</i>
NAPA NO.	5010-0-04-0453
CERT/ISSUE NO.	5104-40, 1cs 1

Prepared By: *[Signature]*
C. Provencal
Mechanical Designer

Checked By: *[Signature]*
D. Shepherd, P. Eng.
DE #02

Released By: *[Signature]*
D. Shepherd, P. Eng.
DE #02

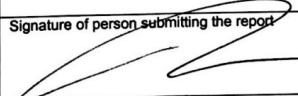
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Revision: 0

MAJOR REPAIR OR MODIFICATION REPORT

INSTRUCTIONS

For instructions see Standard 571 Appendix L

1. Aircraft	Make ROBINSON HELICOPTER COMPANY	Model R44 II
	Serial No. 12391	
2. Owner	Name GARRY CHERNOFF. 345 LOWER BENCH ROAD PENTICTON, BC V2A 8V4	Registration Marks C-GG CX
3. Type of Work <input checked="" type="checkbox"/> Modification <input type="checkbox"/> Repair		
4. Name and address of person or organization who accomplished the repair or modification MADONNA HELICOPTERS LTD RR#2 AIRDRIE, AB. T4B 2A4		
5. Description of work accomplished <p>The following work carried out on Madonna Helicopters Ltd. WO# 42032 -TAFT 16.6 Hrs.</p> <p>Dart Cold Weather Baffle Kit P/N D044-717-011 installed IAW STC SH05-7 installation instructions IIN-D044-717 Rev B., dated 05.01.25</p> <p>Dart Cabin Floor Protectors Kit P/N D044-719-011 installed IAW STC SH04-40 installation instructions IIN-D044-719 Rev A. dated 04.06.10</p> <p>Weight & Balance amendment # 2 in effect – EWCG 1561.36 lbs @ 106.54" Longitudinal, -0.10" Lateral.</p>		
Signature of person submitting the report 		Date of completion September 26, 2008





Transport Canada Transports Canada

Department of Transport

Supplemental Type Certificate

This approval is issued to:

Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, Ontario
Canada K6A 1K7

Number: SH05-7

Issue No.: 1

Approval Date: February 01, 2005

Issue Date: February 01, 2005

Responsible Office: Ontario
Aircraft/Engine Type or Model: ROBINSON R44, R44 II
Canadian Type Certificate or Equivalent: H-97
Description of Type Design Change: Cold Weather Baffle Kit

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

Installation of the Cold Weather Baffle Kit must be done in accordance with Dart Aerospace Ltd., Installation Instructions IIN-D044-717, Rev. B, approved JAN. 25, 2005, or later approved revisions.

Maintenance of the Cold Weather Baffle Kit must be done in accordance with Dart Aerospace Ltd., Instructions for Continued Airworthiness ICA-D044-717, Rev. 0, Transport Canada accepted 01 Feb 2005, or later Transport Canada accepted revisions.

Operation of the rotorcraft with the Cold Weather Baffle Kit installed is limited to -10°C (14°F) or below. Placard D3383-1 must be installed in plain view of the pilot.

— End —



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.


M. G. Mariotti
For Minister of Transport

Canada



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INSTALLATION INSTRUCTIONS

IIN-D044-717

Cold Weather Baffle Kit

ROBINSON R44 MODELS

CANADA DEPARTMENT OF TRANSPORT AIRCRAFT CERTIFICATION BRANCH DAO # 01-O-01	
APPROVED	
BY: <u>D. Shepherd</u>	D. SHEPHERD (DE # 02)
DATE: <u>JAN 25 2005</u>	
CERT. NO.: <u>SH05-7</u>	
ISSUE NO.: <u>#1</u>	

Prepared By: C. Provencal
C. Provencal
Mechanical Designer

Checked By: D. Shepherd
D. Shepherd, P. Eng.
DE #02

Released By: D. Shepherd
D. Shepherd, P. Eng.
DE #02

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Revision: **B**
Date: 05.01.25



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INSTRUCTIONS FOR CONTINUED AIRWORTHINESS

ICA-D044-717

Cold Weather Baffle Kit

ROBINSON R44 MODELS

CANADA	
DEPARTMENT OF TRANSPORT	
AIRCRAFT CERTIFICATION	
BRANCH	
FEB 01 2005	
ACCEPTED	
BY: <u>M. BERTI</u>	
NAPAC NO. <u>5010-0-04-0367</u>	
CERTISSUE NO. <u>SH05-7, Ica 1</u>	

Prepared By: C. Provencal
C. Provencal
Mechanical Designer

Checked By: D. Shepherd
D. Shepherd, P. Eng.
DE #02

Released By: D. Shepherd
D. Shepherd, P. Eng.
DE #02

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Revision: 0