

型号认可数据单

THE VALIDATION DATA SHEET

编号/NO: VTC0031A

版本/Revision: 5

型号/Type:

F-28F、280FX、TH-28、

480、480B

批准人/Approved By:



职位/Title: Director General of CAAC-AAD

日期/Date: 2019-02-13

本数据单是型号认可证（编号：VTC0031A）的组成部分，它规定了符合中国民用航空局的适航要求所颁发此型号认可证的产品状态和限制。

This data sheet, which is part of Validation of Type Certificate (No: VTC0031A), prescribes conditions and limitations under which the product for which the type certificate was issued meets the airworthiness requirements of the Chinese Civil Aviation Regulation.

型号认可证持有人/Validation of Type Certificate Holder:

The Enstrom Helicopter Corporation

2290 22nd Street

Menominee, Michigan 49858-3515, USA

第 1 部分 总则(所有型别)/SECTION 1 GENERAL (ALL MODELS)

1. CAAC 认可数据单和型号合格证数据单/CAAC Validation Data Sheet and Type Certification Data Sheet

	中国民用航空局认可数据单号、版次和颁发日期 CAAC Validation Data Sheet Number, Revision and issuance date	型号合格证数据单号、版次和颁发日期 Type Certificate Data Sheet Number, Revision and issuance date
当前 Current	VTC0031A Revision 5 2019-02-13	280FX,F-28F,480,480B H1CE Rev. 38 2018-05-23 480 H1CE Rev. 37 2017-10-17 TH-28 H1CE Rev.19 1993-06-07
历史 History	VTC0031A Revision 4 2018-09-01	280FX,F-28F,480,480B H1CE Rev.37 2017-10-17 TH-28 H1CE Rev.19 1993-06-07
	VTC0031A Revision3 2017-06-13	280FX,F-28F,480,480B H1CE Rev.35 2015-12-15 TH-28 H1CE Rev.19 1993-06-07
	VTC0031A Revision 2 2015-08-06	280FX,F-28F,480B H1CE Rev. 33 2015-07-01 TH-28,480 H1CE Rev. 19 1993-06-07
	VTC0031A Revision 1 2012-05-02	280FX,F-28F,480B H1CE Rev. 27 2011-03-28 TH-28,480 H1CE Rev.19 1993-06-07
	VTC0031A Revision 0 2011-05-18	480B H1CE Rev. 27 2011-03-28 TH-28,480,F-28F,280FX H1CE Rev. 19 1993-06-07
	1994-04-20	TH-28,480,F-28F,280FX H1CE Rev. 19 1993-06-07

2. 认可当局/Validation Authority: 中国民用航空局/CAAC

审定当局/Certification Authority: 美国联邦航空局/FAA

3. 型号合格证持有人/Type Certificate Holder: The Enstrom Helicopter Corporation

2209 22nd Street

Menominee, Michigan 49858-3515, USA

4. 进口要求/Import Requirements:

为具备在中国运行的资格, 按本型号认可证制造的每架飞机必须具有一份出口适航证, 其上签注有出口国适航当局的审定声明, 即: 本架航空器符合 CAAC 所批准的型号设计并处于可安全运行的状态。

To be considered eligible for operation in China, each aircraft manufactured under this Validation of Type Certificate must be accompanied by a certificate of airworthiness for export endorsed by the FAA which states (in English language): "This aircraft conforms to its CAAC type design and is in a condition for safe operation."

第 2 部分 型号数据/SECTION 2 TYPE DATA

I. 型号 F-28F 直升机, 3PCLH (正常类), 1980 年 12 月 31 日批准 (见注释 14 和 35 到 38、48、59、60、64 和 65)

I. Model F-28F Helicopter, 3 PCLH (Normal Category), Approved December 31, 1980 (See NOTE 14 and 35 thru 38, 48, 59, 60, 64 and 65)

I. 总则/General

1. 衍生型或型号/Variant or Model	F-28F
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1980 年 12 月 31 日/December 31, 1980
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或 -5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 对应的数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC) RSA-5AB1, Parts Number 2524858-A, -1, -2, -3, -4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3, TCDS 1E10 Rev.24.
燃油	最小 100/130 或最小 100LL 级航空汽油。 100/130 min. or 100LL min. grade aviation gasoline.

发动机限制 对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)

Engine Limits For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)

转速限制 发动机 (有动力) 最大 3050; 最小 2900

旋翼 (无动力) 最大 385; 最小 332

RPM limits Engine (Power On) 3050 maximum; 2900 minimum

Rotor (Power Off) 385 maximum; 332 minimum

空速限制 (IAS) 不可逾越速度-英里每小时

压力高度	外界温度 华氏						
	-20	0	20	40	60	80	100
SL	112	112	112	112	112	112	112
2000	112	112	112	112	112	109	105
4000	112	112	112	110	105	100	91
6000	112	111	106	100	90	81	73
8000	107	102	92	82	73	64	55
10000	94	84	74	65	55		
12000	76	65	56				

Airspeed limits (IAS) Never Exceed Speeds - Miles Per Hour

Press. Alt	Outside Air Temperature, °F						
	-20	0	20	40	60	80	100
SL	112	112	112	112	112	112	112
2000	112	112	112	112	112	109	105
4000	112	112	112	110	105	100	91
6000	112	111	106	100	90	81	73
8000	107	102	92	82	73	64	55
10000	94	84	74	65	55		
12000	76	65	56				

高度限制	密度高度 12000 英尺
Altitude limits	12,000 ft. density altitude
重心限制	纵向: (+92.0) 到 (+94.6) 在 2350 磅 (+92.0) 到 (+100.0) 在 2000 磅 参见飞行手册重量表 横向: 最大批准不对称从+3700 到 -3250 英寸-磅在 2350 磅 参见飞行手册重量表
C.G. Limits	Longitudinal: (+92.0) to (+94.6) at 2350 lbs. (+92.0) to (+100) at 2000 lbs. See Flight Manual for schedule with weight. Lateral: Maximum approved asymmetric moment +3700 to -3250 in.-lbs. at 2350 lbs. See Flight Manual for schedule with weight.
最大重量	2350 磅
Maximum weight	2350 lbs.
座位数	3 (+62.0)
No. of seats	3 (+62.0)
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 不可用燃油数据参见注释 1
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.
滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据

Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil.
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的，相对于水平面 6° TE 向上
Stabilizer setting	Fixed, 6° TE up relative to WL.
序列号范围	型号 F-28F: 506、507 及 509 至 743 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	F-28F Models: 506, 507, and 509 thru 743 (See NOTE 29 for ineligible serial numbers table)

II. 型号 F-28F 直升机, 3PCLH (限制类), 改装按注释 6, 1980 年 12 月 31 日批准, 或按注释 8, 1980 年 12 月 31 日批准 (见注释 14 和 35 到 38、48、59、60、64 和 65)

(此版本是农业作业或外载作业至总重 2600 磅版本)

II. Model F-28F Helicopter, 3 PCLH (Restricted Category), Modified per NOTE 6, Approved December 31, 1980, or NOTE 8, Approved December 31, 1980 (See NOTE 14 35 thru 38, 48, 59, 60, 64 and 65)

(This version is for agricultural operation or external load operation up to 2600 lbs. GW.)

I. 总则/General

1. 衍生型或型号/Variant or Model	F-28F
适航类别/Airworthiness Category	限制类翼航空器/Restricted Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1980 年 12 月 31 日/December 31, 1980
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或 -5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC) RSA-5AB1, Parts Number 2524855-A, -1, -2, -3, -4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3,

TCDS 1E10 Rev.24.

燃油

最小 100/130 或最小 100LL 级航空汽油。

100/130 min. or 100LL min. grade aviation gasoline.

发动机限制

对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)

Engine Limits

For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)

转速限制

发动机 (有动力) 最大 3050; 最小 2900

旋翼 (无动力) 最大 385; 最小 332

RPM limits

Engine (Power On) 3050 maximum; 2900 minimum

Rotor (Power Off) 385 maximum; 332 minimum

空速限制 (IAS)

不可逾越速度-英里每小时

压力高度	外界温度 华氏						
	-20	0	20	40	60	80	100
SL	85	85	85	85	85	85	85
1000	85	85	85	85	85	83	82
2000	85	85	85	84	83	82	81
3000	85	85	84	83	82	81	80
4000	85	84	83	82	81	80	69
5000	84	83	82	81	80	68	57
6000	83	82	81	80	68	60	
7000	82	81	79	68	60		
8000	81	80	69	61			
9000	80	72	59				

Airspeed limits (IAS)

Never Exceed Speeds - Miles Per Hour

Press. Alt	Outside Air Temperature, °F
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	-20	0	20	40	60	80	100
SL	85	85	85	85	85	85	85
1000	85	85	85	85	85	83	82
2000	85	85	85	84	83	82	81
3000	85	85	84	83	82	81	80
4000	85	84	83	82	81	80	69
5000	84	83	82	81	80	68	57
6000	83	82	81	80	68	60	
7000	82	81	79	68	60		
8000	81	80	69	61			
9000	80	72	59				

高度限制

密度高度 9000 英尺

Altitude limits

9,000 ft. density altitude

重心限制

纵向: (+96.5) 到 (+98.0) 在 2600 磅

(+92.0) 到 (+98.3) 在 2350 磅

(+92.0) 到 (+98.6) 在 2000 磅

(在数据点间直线变化)

横向: -16200 至-3250 英寸-磅, 超过 2350 磅

C.G. Limits

Longitudinal: (+96.5) to (+98.0) at 2600 lbs.

(+92.0) to (+98.3) at 2350 lbs.

(+92.0) to (+98.6) at 2000 lbs.

(Straight line variation between data points.)

Lateral: -1620 to - 3250 in.-lbs. above 2350 lbs.

最大重量

2600 磅

Maximum weight

2600 lbs.

每个喷砂油箱最大重量

350 磅

Maximum weight per dispersal tank	350 lbs.
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 参见注释 1 不可用燃油数据
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.
滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据
Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 6° TE 向上
Stabilizer setting	Fixed, 6° TE up relative to WL.
序列号范围	所有批准的 F-28F 型号 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	All approved F-28F Models (See NOTE 29 for ineligible serial numbers table)

III. 型号 F-28F 直升机, 3PCLH (正常类), 改装按注释 7, 1980 年 12 月 31 日批准 (见注释 14 和 35 到 38、48、59、60、64 和 65)

(此版本为选装可充气浮筒运行版本)

III. F-28F Helicopter, 3 PCLH (Normal Category), Modified per NOTE 7, Approved December 31, 1980 (See NOTE 14 and 35 thru 38, 48, 59, 60, 64 and 65)

(This version is for operation with inflatable floats)

I. 总则/General

1. 衍生型或型别/Variant or Model	F-28F
适航类别/Airworthiness Category	正常类, 限制类旋翼航空器/Normal Category, Restricted Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street, Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1980 年 12 月 31 日/December 31, 1980
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Harzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或 -5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Harzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC)RSA-5AB1, Parts Number 2524858-A, -1, -2, -3,

	-4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3, TCDS 1E10 Rev.24.
燃油	最小 100/130 或最小 100LL 级航空汽油。 100/130 min. or 100LL min. grade aviation gasoline.
发动机限制	对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)
Engine Limits	For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)
转速限制	发动机 (有动力) 最大 3050; 最小 2900 旋翼 (无动力) 最大 385; 最小 332
RPM limits	Engine (Power On) 3050 maximum; 2900 minimum Rotor (Power Off) 385 maximum; 332 minimum
空速限制 (IAS)	总重在或低于 2350 公斤标准海平面天, 不可超过 100 英里每小时, 参见 FAA 的旋翼航空器飞行手册补充 No.2 中 V_{NE} 随总重和高度递减及重量在 2350 磅和 2600 磅之间按限制类运行部分。
Airspeed limits (IAS)	Never exceed 100 mph IAS for standard sea level day at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No.2 for V_{NE} reductions with altitude and gross weight and for Restricted Category operations between 2350 lbs. and 2600 lbs.
高度限制	总重量在或低于 2350 磅时 12000 英尺。参见 FAA 批准的旋翼航空器飞行手册补充 No.2 随总重高度递减及 2350 磅和 2600 磅之间按限制类运行部分。
Altitude limits	12,000 ft. density altitude at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No. 2 for altitude reductions with gross weight and for Restricted Category operations between 2350 lbs. and 2600 lbs.
重心限制	纵向: 在所有总重至 2350 磅的, 最大前重心是+92.0 英寸

	在总重至 2070 磅的，最大后重心+98.5 英寸，并线性递减到总重 2350 时的+94.6 英寸。
	见 FAA 批准的旋翼航空器飞行手册补充 No.2 总重图表和在 2350 磅和 2600 磅之间按限制类运行部分。
横向:	总重大于 2050 磅以上最大批准不对称+3700 到 -3250 英寸-磅 参见 FAA 批准的旋翼航空器飞行手册补充 No.2 总重图表和在 2350 磅和 2600 磅之前限制类运行部分。
C.G. Limits	Longitudinal: Maximum Fwd. C.G. is +92.0 in. at all G.W. Up to 2350 lbs. Maximum Aft C.G. is +98.5 in. at G.W. up to 2070lbs. and decreasing linearly to +94.6 in. at 2350 lbs. See FAA-approved Rotorcraft Flight Manual Supplement No. 2 for schedule with gross weight and for Restricted Category operations between 2350 lbs. and 2600 lbs. Lateral: Maximum approved asymmetric moment +3700 to -3250 in.-lbs. above 2025 lbs. See FAA-approved Rotorcraft Flight Manual Supplement No.2 for schedule with gross weight and for Restricted Category operations between 2350 lbs. and 2600 lbs.
最大重量	2350 磅 - 正常类, 2600 磅 - 限制类
Maximum weight	2350 lbs. - Normal Category, 2600 lbs. - Restricted Category
座位数	3 (+62.0)
No. of seats	3 (+62.0)
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 参见注释 1 不可用燃油数据
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable.

滑油容量（发动机油箱）	10 夸脱（+96.0） 参见注释 1 不可排放机油数据
Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的，相对于水平面 6° TE 向上
Stabilizer setting	Fixed, 6° TE up relative to WL.
序列号范围	所有批准的 F-28F 型号（参见注释 29，不适用的序列号表）
Serial Nos. eligible	All approved F-28F Models (See NOTE 29 for ineligible serial numbers table)

IV. 型号 F-28F 直升机, 3PCLH (正常类), 最初制造符合或改装按注释 16, 1984 年 7 月 1 日批准 (见注释 14 和 35 到 38、48、59、60、64 和 65)

(此版本 F-28F 和基础型号 F-28F 的区别在于安装了描述在 Enstrom 详细图纸 28-100015 的项目, 允许正常类运行在总重至 2600 磅。此版本有 4 个总重/重心包线, 每个对应一个不同的 V_{NE} 高度包线)

IV. Model F-28F Helicopter, 3 PCLH (Normal Category), Originally Manufactured in Compliance with or Modified per NOTE 16, Approved July 1, 1984 (See NOTE 14, 35 thru 38, 48, 59, 60, 64 and 65)

(This version of the model F-28F differs from the basic model F-28F in that the installation of the items described in Enstrom Specification Drawing 28-100015 permits Normal Category operation at gross weights up to 2600 pounds. There are four gross weight/center of gravity envelopes for this version, each of which corresponds to a different V_{NE} /altitude envelope.)

I. 总则/General

1. 衍生型或型号/Variant or Model	F-28F
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1984 年 07 月 01 日/July 1, 1984
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或-5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC) RSA-5AB1, Parts Number 2524858-A, -1, -2, -3, -4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3,

TCDS 1E10 Rev.24.

燃油

最小 100/130 或最小 100LL 级航空汽油。

100/130 min. or 100LL min. grade aviation gasoline.

发动机限制

对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)

Engine Limits

For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)

转速限制

发动机 (有动力) 最大 3050; 最小 2900

旋翼 (无动力) 最大 385; 最小 332

RPM limits

Engine (Power On) 3050 maximum; 2900 minimum

Rotor (Power Off) 385 maximum; 332 minimum

空速限制 (IAS)

总重在或低于 2350 公斤标准海平面天, 不可超过 112 英里每小时, 参见 FAA 的旋翼航空器飞行手册 V_{NE} 随总重和高度递减部分。

Airspeed limits (IAS)

Never exceed 112 mph IAS for standard sea level day at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual for V_{NE} reductions with altitude and gross weight.

高度限制

总重量在或低于 2350 磅时 12000 英尺。参见 FAA 批准的旋翼航空器飞行手册随总重高度递减部分。

Altitude limits

12,000 ft. density altitude at or below 2350 lbs. gross weight. See FAA- approved Rotorcraft Flight Manual for altitude reductions with gross weight.

重心限制

纵向: 在所有总重至 2350 磅的, 最大前重心是+92.0 英寸, 并线性递减到总重 2600 磅时的+96.3 英寸。

在总重大于 2000 磅之上, 最大后重心+100.0 英寸, 并线性递减到总重 2600 磅时的+98.0 英寸

	见 FAA 批准的旋翼航空器飞行手册总重图表。
横向:	总重大于 2050 磅以上最大批准不对称+3700 到 -3250 英寸-磅 参见 FAA 批准的旋翼航空器飞行手册总重图表。
C.G. Limits	Longitudinal: Maximum Fwd. C.G. is +92.0 in. at all G.W. up to 2350 lbs. Decreasing linearly to +96.3 in. at 2600 lbs. Maximum Aft C.G. is +100.0 in. at G.W. up to 2000 lbs. and decreasing linearly to +98.0 in. at 2600 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
	Lateral: Maximum approved asymmetric moment +3700 to -3250 in.-lbs. above 2050 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
最大重量	2600 磅
Maximum weight	2600 lbs.
座位数	3 (+62.0)
No. of seats	3 (+62.0)
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 参见注释 1 不可用燃油数据
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.
滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据

Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil.
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	对 S/N 506, 507 和 509 至 743 固定的, 相对于水平面 6° TE 向上
	对 S/N 744 及之后 固定的, 相对于水平面 3° 30' TE 向上
Stabilizer setting	S/N 506, 507, and 509 thru 743 Fixed, 6° TE up relative to WL.
	S/N 744 and subsequent Fixed, 3° 30' TE up relative to WL
序列号范围	所有批准的 F-28F 型号 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	All approved F-28F Models (See NOTE 29 for ineligible serial numbers table)

V. 型号 F-28F 直升机, 3PCLH (正常类), 最初制造符合或改装按注释 7 和 16, 1984 年 7 月 1 日批准 (见注释 14 和 35 到 38、48、59、60、64 及 65)

(此版本 F-28F 和基础型号 F-28F 的区别在于安装了描述在 Enstrom 详细图纸 28-17326 和 Enstrom 详细图纸 28-100015 的项目, 允许正常类带浮筒运行在总重至 2600 磅。此版本有 3 个总重/重心包线, 每个对应一个不同的 V_{NE} 高度包线)

IV. Model F-28F Helicopter, 3 PCLH (Normal Category), Originally Manufactured in Compliance with or Modified per NOTE 7, and 16, Approved July 1, 1984 (See NOTE 14, 35 thru 38, 48, 59, 60, 64 and 65)

(This version of the model F-28F differs from the basic model F-28F in that the installation of the items described in Enstrom Drawing 28-17326 and Enstrom Specification Drawing 28-100015 permits operation with floats up to 2600 pounds gross weight in the normal category. There are three gross weight/center of gravity envelopes for this version, each of which corresponds to a different V_{NE} /altitude envelope.)

I. 总则/General

1. 衍生型或型别/Variant or Model	F-28F
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1984 年 07 月 01 日/July 1, 1984
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或 -5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC) RSA-5AB1, Parts List 2524858-A, -1, -2, -3, -4 or

	-5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3, TCDS 1E10 Rev.24.
燃油	最小 100/130 或最小 100LL 级航空汽油。 100/130 min. or 100LL min. grade aviation gasoline.
发动机限制	对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)
Engine Limits	For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)
转速限制	发动机 (有动力) 最大 3050; 最小 2900 旋翼 (无动力) 最大 385; 最小 332
RPM limits	Engine (Power On) 3050 maximum; 2900 minimum Rotor (Power Off) 385 maximum; 332 minimum
空速限制 (IAS)	总重在或低于 2350 公斤标准海平面天, 不可超过 100 英里每小时, 参见 FAA 的旋翼航空器飞行手册补充 No.2 随总重和高度递减部分。
Airspeed limits (IAS)	Never exceed 100 mph IAS for standard sea level day at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No.2 for V_{NE} reductions with altitude and gross weight.
高度限制	总重量在或低于 2350 磅时 12000 英尺。参见 FAA 批准的旋翼航空器飞行手册补充 No.2 随总重高度递减部分。
Altitude limits	12,000 ft. density altitude at or below 2350 lbs. gross weight. See FAA- approved Rotorcraft Flight Manual Supplement No. 2 for altitude reductions with gross weight.
重心限制	纵向: 在所有总重至 2350 磅的, 最大前重心是+92.0 英寸, 并线性递减到总重 2600 磅时的+96.5 英寸。 在总重大于 2070 磅之上, 最大后重心+98.5 英寸, 并线性递减到

	总重 2600 磅时的+98.0 英寸
	见 FAA 批准的旋翼航空器飞行手册补充 No.2 总重图表。
横向:	总重大于 2025 磅以上最大批准不对称+3700 到 -3250 英寸-磅 参见 FAA 批准的旋翼航空器飞行手册总重图表。
C.G. Limits	Longitudinal: Maximum Fwd. C.G. is +92.0 in. at all G.W. up to 2350 lbs. and decreasing linearly to +96.5 in. at 2600 lbs. Maximum Aft C.G. is +98.5 in. at all G.W. up to 2070 lbs. and decreasing linearly to +98.0 in. at 2600 lbs. See FAA-approved Rotorcraft Flight Manual Supplement No. 2 for schedule with gross weight.
	Lateral: Maximum approved asymmetric moment +3700 to -3250 in.-lbs. above 2025 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
最大重量	2600 磅
Maximum weight	2600 lbs.
座位数	3 (+62.0)
No. of seats	3 (+62.0)
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 参见注释 1 不可用燃油数据
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.
滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据

Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil.
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	对 S/N 506, 507 和 509 至 743 固定的, 相对于水平面 6° TE 向上
	对 S/N 744 及之后 固定的, 相对于水平面 3° 30' TE 向上
Stabilizer setting	S/N 506, 507, and 509 thru 743 Fixed, 6° TE up relative to WL.
	S/N 744 and subsequent Fixed, 3° 30' TE up relative to WL
序列号范围	所有批准的 F-28F 型号 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	All approved F-28F Models (See NOTE 29 for ineligible serial numbers table)

VI. 型号 280FX 直升机, 3PCLH (正常类), 1985 年 1 月 14 日批准 (见注释 6、8 和 35 到 38、48、59、60、64 及 65)

(此型号批准按 2600 磅正常类运行。此版本有 4 个总重/重心包线, 每个对应一个不同的 V_{NE} 高度包线)

VI. Model 280FX Helicopter, 3 PCLH (Normal Category), Approved January 14, 1985 (See NOTE 6, 8, 35 thru 38, 48, 59, 60, 64 and 65)

(This model is approved for normal category operations at 2600 lbs. There are four gross weight/center of gravity envelopes for this version, each of which corresponds to a different V_{NE} /altitude envelope.)

I. 总则/General

1. 衍生型或型别/Variant or Model	280FX
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1985 年 01 月 14 日/January 14, 1985
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或-5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster(Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix(Precision Airmotive LLC) RSA-5AB1, Parts List 2524858-A, -1, -2, -3, -4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3, TCDS 1E10 Rev.24.

燃油	最小 100/130 或最小 100LL 级航空汽油。 100/130 min. or 100LL min. grade aviation gasoline.
发动机限制	对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)
Engine Limits	For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)
转速限制	发动机 (有动力) 最大 3050; 最小 2900 旋翼 (无动力) 最大 385; 最小 334
RPM limits	Engine (Power On) 3050 maximum; 2900 minimum Rotor (Power Off) 385 maximum; 334 minimum
空速限制 (IAS)	总重在或低于 2350 公斤标准海平面天, 不可超过 117 英里每小时, 参见 FAA 批准的旋翼航空器飞行手册随总重和高度递减部分。
Airspeed limits (IAS)	Never exceed 117 mph IAS for standard sea level day at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual for V_{NE} reductions with altitude and gross weight.
高度限制	总重量在或低于 2350 磅时 12000 英尺密度高度。参见 FAA 批准的旋翼航空器飞行手册随总重高度递减部分。
Altitude limits	12,000 ft. density altitude at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual for altitude reductions with gross weight.
重心限制	纵向: 在所有总重至 2350 磅的, 最大前重心是+92.0 英寸, 并线性递减到总重 2600 磅时的+96.3 英寸。 在总重至 2000 磅的, 最大后重心+1000 英寸, 并线性递减到总重 2600 磅时的+98.0 英寸 见 FAA 批准的旋翼航空器飞行手册总重图表。 横向: 总重大于 2025 磅以上最大批准不对称+3700 到 -3250 英寸-磅

参见 FAA 批准的旋翼航空器飞行手册总重图表。

C.G. Limits	Longitudinal:	Maximum Fwd. C.G. is +92.0 in. at all G.W. up to 2350 lbs. and decreasing linearly to +96.3 in. at 2600 lbs. Maximum Aft C.G. is +100.0 in. at all G.W. up to 2000 lbs. and decreasing linearly to +98.0 in. at 2600 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
	Lateral:	Maximum approved asymmetric moment +3700 to -3250 in.-lbs. above 2025 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
最大重量	2600 磅	
Maximum weight	2600 lbs.	
座位数	3 (+62.0)	
No. of seats	3 (+62.0)	
最大行李	108 磅 (+135.0)	
Maximum baggage	108 lbs. (+135.0)	
燃油容量	42 加仑 (+96.7), 参见注释 1 不可用燃油数据	
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.	
滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据	
Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil	
控制系统校准	参考维护手册	

Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 $3^{\circ} 30'$ TE 向上
Stabilizer setting	Fixed, $3^{\circ} 30'$ TE up relative to WL
序列号范围	S/N 2001 及以后 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	S/N 2001 and subsequent (See NOTE 29 for ineligible serial numbers table)

VII. 型号 280FX 直升机, 3PCLH (正常类), 初始制造满足或改装按注释 7, 1985 年 7 月 12 日批准 (见注释 35 到 38、48、59、60、64 和 65)

(此版本 280FX 和基础型号 280FX 的区别为安装了描述在 Enstrom 详细图纸 28-17326, 28-20119 和 Enstrom 详细图纸 28-100015 的项目, 允许正常类带浮筒运行在总重至 2600 磅。此版本有 3 个总重/重心包线, 每个对应一个不同的 V_{NE} 高度包线)

VII. Model 280FX Helicopter, 3 PCLH (Normal Category), Originally Manufactured in Compliance with or Modified per NOTE 7, Approved July 12, 1985 (See NOTES 35 thru 38, 48, 59, 60, 64 and 65)

(This version of the model 280FX differs from the basic model 280FX in that installation of the items described in Enstrom Drawing 28-17326, 28-20119, and Enstrom Specification Drawing 28-100015 permits operation with floats up to 2600 pounds gross weight in the normal category. There are three gross weight/center of gravity envelopes for this version, each of which corresponds to a different V_{NE} /altitude envelope.)

I. 总则/General

1. 衍生型或型别/Variant or Model	280FX
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1985 年 07 月 12 日/July 12, 1985
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	按 STC SEC484GL 带有 Rajay 型号 325E10-2 或 Rotomaster (Hartzell Engine Technologies) 型号 3BT5EE10J2 涡轮增压器的莱康明 HIO-360-F1AD 和 Bendix (Precision Airmotive LLC) RSA-5AB1 件号为 2524855-A, -1, -2, -3, -4 或 -5 燃油喷油器, CAAC 型号认可证编号 VTC0149E (2014-07-04), 认可数据单版次 3, 数据单 1E10 Rev.24。
Engine	Lycoming HIO-360-F1AD with Rajay Model 325E10-2 or Rotomaster (Hartzell Engine Technologies) Model 3BT5EE10J2 turbocharger per STC SE484GL and Bendix (Precision Airmotive LLC) RSA-5AB1, Parts Number 2524858-A, -1, -2, -3,

	-4 or -5 fuel injector. CAAC VTC No. VTC0149E (2014-07-04), VTCDS Version 3, TCDS 1E10 Rev.24.
燃油	最小 100/130 或最小 100LL 级航空汽油。 100/130 min. or 100LL min. grade aviation gasoline.
发动机限制	对于所有操作: 3050 转/分, 39.0 英寸汞柱 歧管压力 (225 马力)
Engine Limits	For all operations: 3050 rpm, 39.0 in.Hg manifold pressure(225 hp.)
转速限制	发动机 (有动力) 最大 3050; 最小 2900 旋翼 (无动力) 最大 385; 最小 334
RPM limits	Engine (Power On) 3050 maximum; 2900 minimum Rotor (Power Off) 385 maximum; 334 minimum
空速限制 (IAS)	总重在或低于 2350 公斤标准海平面天, 不可超过 100 英里每小时, 参见 FAA 批准的旋翼航空器飞行手册补充 No.2 随总重和高度递减部分。
Airspeed limits (IAS)	Never exceed 100 mph IAS for standard sea level day at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No.2 for V_{NE} reductions with altitude and gross weight.
高度限制	总重量在或低于 2350 磅时 12000 英尺密度高度。参见 FAA 批准的旋翼航空器飞行手册补充 No.2 随总重高度递减部分。
Altitude limits	12,000 ft. density altitude at or below 2350 lbs. gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No.2 for altitude reductions with gross weight.
重心限制	纵向: 在所有总重至 2350 磅的, 最大前重心是+92.0 英寸, 并线性递减到总重 2600 磅时的+96.5 英寸。 在总重至 2070 磅的, 最大后重心+98.5 英寸, 并线性递减到总重

	2600 磅时的+98.0 英寸
	见 FAA 批准的旋翼航空器飞行手册补充 No.2 总重图表。
横向:	总重大于 2025 磅以上最大批准不对称+3700 到 -3250 英寸-磅 参见 FAA 批准的旋翼航空器飞行手册总重图表。
C.G. Limits	Longitudinal: Maximum Fwd. C.G. is +92.0 in. at all G.W. up to 2350 lbs. and decreasing linearly to +96.5 in. at 2600 lbs. Maximum Aft C.G. is +98.5 in. at G.W. up to 2070 lbs. and decreasing linearly to +98.0 in. at 2600 lbs. See FAA-approved Rotorcraft Flight Manual Supplement No. 2 for schedule with gross weight. Lateral: Maximum approved asymmetric moment +3700 to -3250 in.-lbs. above 2025 lbs. See FAA-approved Rotorcraft Flight Manual for schedule with gross weight.
最大重量	2600 磅
Maximum weight	2600 lbs.
座位数	3 (+62.0)
No. of seats	3 (+62.0)
最大行李	108 磅 (+135.0)
Maximum baggage	108 lbs. (+135.0)
燃油容量	42 加仑 (+96.7) , 参见注释 1 不可用燃油数据
Fuel capacity	42 gal. (+96.7), See NOTE 1 for data on unusable fuel.

滑油容量 (发动机油箱)	10 夸脱 (+96.0) 参见注释 1 不可排放机油数据
Oil capacity (engine sump)	10 qts. (+96.0) See NOTE 1 for data on undrainable oil
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 3° 30' TE 向上
Stabilizer setting	Fixed, 3° 30' TE up relative to WL
序列号范围	2001 及以后 (参见注释 29, 不适用的序列号表)
Serial Nos. eligible	2001 and subsequent (See NOTE 29 for ineligible serial numbers table)

VIII. 型号 TH-28 直升机, 3PCLH (正常类), 1992 年 9 月 11 日批准 (见注释 20)

(TH-28 是由 280FX 换装涡轮发动机的衍生型, 具有一个更大的驾驶舱, 一个更高的带有整流罩的起落架, 一个更大直径的尾桨, 及大的水平和垂直安定面。)

VIII. Model TH-28 Helicopter, 3 PCLH (Normal Category), Approved September 11, 1992 (See NOTE 20)

(The TH-28 is a derivative of the 280FX with a turbine engine, a larger cabin, a taller landing gear with aerodynamic fairings, a larger diameter tail rotor, and larger horizontal and vertical stabilizers.)

I. 总则/General

1. 衍生型或型号/Variant or Model	TH-28
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1992 年 09 月 11 日/September 11, 1992
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	Allison 250-C20W, CAAC 型号认可证编号 VTC0232E, (2014-04-08, 数据单 E4CE Rev.39)。
Engine	Allison 250-C20W, CAAC VTC No. VTC0232E (2014-04-08, TCDS E4CE Rev. 39).
燃油	航空涡轮燃油 ASTM D1655 Jet A 或 A-1; ASTM D6615 Jet B; Mil-T-5624, JP-4 或 JP-5; 或 MIL-DTL-83133, 等级 JP8
Fuel	Aviation Turbine Fuels ASTM D1655, Jet A or A1; ASTM D6615, Jet B; MIL-T-5624, JP-4 or JP-5; or MIL-DTL-83133, Grade JP-8.

发动机限制	<u>扭矩压力</u>	<u>输出轴转速</u>	<u>涡轮排气温度</u>	<u>燃气发生器转速</u>
起飞 (5 分钟)	67 磅/英寸 ² (285 马力)	103% (6196 转/分钟)	810°C	105% (53519 转/分钟)
最大连续	60 磅/英寸 ² (256 马力)	103% (6196 转/分钟)	737°C	105% (53519 转/分钟)

Engine Limits	<u>Torque Pressure</u>	<u>Output Shaft Speed</u>	<u>Turbine Outlet Temp.</u>	<u>Gas Gen Speed</u>
Takeoff (5 min.)	67 psi (285 HP)	103% (6196 RPM)	810°C	105% (53,519 RPM)
Max Continuous	60 psi (256 HP)	103% (6196 RPM)	737°C	105% (53,519 RPM)

转速限制	<u>无动力</u>	<u>有动力</u>
	最大 385 转/分钟	最大 365 转/分钟
	最小 334 转/分钟	最小 357 转/分钟

Rotor limits	<u>Power Off</u>	<u>Power On</u>
	Maximum 385 RPM	Maximum 365 RPM
	Minimum 334 RPM	Minimum 357 RPM

空速限制 (IAS) 最大重量、标准海平面天，不超过 140 英里每小时 (122 节)，见 FAA 批准的旋翼航空器飞行手册 VNE 随总重和高度递减部分。

Airspeed limits (IAS) Never exceed 140 mph (122 knots) IAS for standard sea level day at maximum gross weight. See FAA-approved Rotorcraft Flight Manual for V_{NE} reductions with altitude.

高度限制 13000 英尺密度高度，随总重变化的起飞和着陆高度。参见 FAA 批准的旋翼航空器飞行手册。

Altitude limits 13,000 ft. feet max. height density altitude. For reduction in take-off and landing altitude with gross weight, see FAA-approved Rotorcraft Flight Manual.

重心限制 纵向: 在所有总重至 2200 磅的，最大前重心是+134.0 英寸，并线性递

	减到总重 2850 磅时的+136.35 英寸。
	在总重至 2500 磅的，最大后重心+143.0 英寸，并线性递减到总重 2850 磅时的 141.5 英寸
横向:	最大不平衡±7500 英尺-磅
C.G. Limits	Longitudinal: Maximum Forward C.G. is +134.0 in. at all G.W. up to 2200 lbs. decreasing linearly to +136.35 in. at 2850 lbs. Maximum Aft C.G. is +143.0 in. at all G.W. up to 2500 lbs. decreasing linearly to +141.5 in. at 2850 lbs.
	Lateral: Maximum asymmetric moment ±7500 in.-lbs.
最大重量	2850 磅
Maximum weight	2850 lbs.
最小机组	在+99.1 英寸的一名
Minimum crew	One (1) at (+99.1 in.) station
乘客	在+99.1 的一位，和位于+113.1 的一位
Passenger	1 at (+99.1), and 1 at (+113.1)
最大行李	不适用
Maximum baggage	Not applicable
燃油容量	位于+144.6 英寸 90 加仑（607 磅），0.3 加仑不可用，参见注释 1
Fuel capacity	90.0 gallons Total (607 lbs.) at (+144.6 in.); 0.3 gallon unusable, See NOTE 1
滑油容量（发动机油箱）	位于+153 英寸的 12.0 品脱（12.6 磅）
Oil capacity (engine sump)	12.0 pints (12.6 lbs.) at (+153.0 in.)

控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 1.5° TE 向下
Stabilizer setting	Fixed, 1.5° TE down relative to WL
序列号范围	S/N 3004 及以后 (参见注释 29)
Serial Nos. eligible	S/N 3004 and subsequent (See NOTE 29)

IX. 型号 480 直升机, 5PCLH (正常类), 1993 年 11 月 10 日批准 (参见注释 19 至 24, 26, 27, 44, 51 和 63)

(480 是由 TH-28 装有 5 座衍生而来, 一个更小的仪表板, 可拆卸右座操纵系统, 一个右前方座位脚踏, 一个行李盒和一个可选的后部电池站位)

IX. Model 480 Helicopter, 5 PCLH (Normal Category), Approved November 10, 1993 (See NOTE 19 thru 24, 26, 27, 44, 51 and 63)

(The 480 is a derivative of the TH-28 having five-place seating, a smaller instrument panel, removable right-seat controls, a footrest for the front right seat, a baggage box, and an optional aft battery location.)

I. 总则/General

1. 衍生型或型别/Variant or Model	480
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1993 年 11 月 10 日/November 10, 1993
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	Allison 250-C20W, CAAC 型号认可证编号 VTC0232E (2014-04-08, 数据单 E4CE Rev.39)。
Engine	Allison 250-C20W, CAAC VTC No. VTC0232E (2014-04-08, TCDS E4CE Rev.39).
燃油	航空涡轮燃油 ASTM D1655 Jet A 或 A-1 或 ASTM D6615 Jet B; Mil-DTL-5624, 等级 JP-4 或 JP-5 或 Mil-DTL-83133, 等级 JP8。
Fuel	Aviation Turbine Fuels ASTM D1655 Jet A or A1; ASTM D6615, Jet B; MIL-T-5624, JP-4 or JP-5; or MIL-DTL-83133, Grade JP-8.

发动机限制	<u>扭矩压力</u>	<u>输出轴转速</u>	<u>涡轮排气温度</u>	<u>燃气发生器转速</u>
起飞 (5 分钟)	67 磅/英寸 ² (285 马力)	103% (6196 转/分钟)	810°C	105% (53519 转/分钟)
最大连续	60 磅/英寸 ² (256 马力)	103% (6196 转/分钟)	737°C	105% (53519 转/分钟)

Engine Limits	<u>Torque Pressure</u>	<u>Output Shaft Speed</u>	<u>Turbine Outlet Temp.</u>	<u>Gas Gen Speed</u>
Takeoff (5 min.)	67 psi (285 HP)	103% (6196 RPM)	810°C	105% (53,519 RPM)
Max Continuous	60 psi (256 HP)	103% (6196 RPM)	737°C	105% (53,519 RPM)

转速限制	<u>无动力</u>	<u>有动力</u>
	最大 385 转/分钟	最大 365 转/分钟
	最小 334 转/分钟	最小 357 转/分钟

Rotor limits	<u>Power Off</u>	<u>Power On</u>
	Maximum 385 RPM	Maximum 365 RPM
	Minimum 334 RPM	Minimum 357 RPM

空速限制 (IAS) 最大起飞重量、标准海平面天，不超过 140 英里每小时 (122 节)，见 FAA 批准的旋翼航空器飞行手册 V_{NE} 随高度降低部分。

Airspeed limits (IAS) Never exceed 140 mph (122 knots) IAS for standard sea level day at maximum take-off gross weight. See FAA-approved Rotorcraft Flight Manual for V_{NE} reduction with altitude.

高度限制 13000 英尺密度高度，随总重变化的高度。参见 FAA 批准的旋翼航空器飞行手册。

Altitude limits 13,000 feet max. height density altitude. For reduction altitude with gross weight, see FAA approved Rotorcraft Flight Manual.

重心限制 纵向: 在所有总重至 2200 磅的，最大前重心是+134.0 英寸，并线性递减到总重 2850 磅时的+134.35 英寸。

		在所有总重至 2850 磅的，最大后重心+143.0 英寸，并线性递减到总重 2850 磅时的+141.5 英寸。
	横向:	最大不平衡±7500 英尺-磅
C.G. Limits	Longitudinal:	Maximum Forward C.G. is +134.0 in. at all G.W. up to 2200 lbs. decreasing linearly to +136.35 in. at 2850 lbs. Maximum Aft C.G. is +143.0 in. at all G.W. up to 2850 lbs. Decreasing linearly to +141.5 in.at 2850 lbs.
	Lateral:	Maximum asymmetric moment ±7500 in.-lbs.
最大重量		2850 磅
Maximum weight		2850 lbs.
最小机组		在+99.1 英寸的一名
Minimum crew		One (1) at (+99.1 in.) station
乘客		在+89.0 英寸的 1 位加上在+113.1 英寸的 3 位或在 99.1 英寸的 1 位加上在+113.1 英寸的一位
Passenger		1 at (+89.0 in.), and 3 at (+113.1 in.); or 1 at(+99.1 in.) and 1 at(+113.1 in.)
最大行李		位于+192.0 英寸的 150 磅
Maximum baggage		150 lbs. at (+192.0 in.)
燃油容量		位于+144.6 英寸 90 加仑（607 磅），0.3 加仑不可用，参见注释 1 不可用燃油数据。
Fuel capacity		90.0 gallons Total (607 lbs.) at (+144.6 in.); 0.3 gallon unusable, See NOTE 1 for data on unusable fuel.

滑油容量 (发动机油箱)	位于+153 英寸的 12.0 品脱 (12.6 磅)
Oil capacity (engine sump)	12.0 pints (12.6 lbs.) at (+153.0 in.)
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 1.5° TE 向下
Stabilizer setting	Fixed, 1.5° TE down relative to WL
序列号范围	S/N 5002 至 5016 (参见注释 29 不适用序列号表)
Serial Nos. eligible	S/N 5002 thru 5016 (See NOTE 29 for ineligible serial numbers table)

X. 型号 480 直升机, 5PCLH (正常类), 按注释 25 原始生产或更改, 1996 年 8 月 12 日批准 (参见注释 19 至 27, 44, 51 和 63)

(此版本 480 与基本 480 的区别在安装了 Enstrom 图纸 4230002 中列出的项目, 提升了主旋翼转速和扭矩限制)

X. Model 480 Helicopter, 5 PCLH (Normal Category), Originally Manufactured in Compliance with or Modified per NOTE 25, Approved August 12, 1996 (See NOTES 19 thru 27, 44, 51, and 63)

(This version of the model 480 differs from the basic model 480 in that installation of the items listed in Enstrom

Drawing 4230002 permits operation with increased main rotor rpm and torque limits.)

I. 总则/General

1. 衍生型或型号/Variant or Model	480
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	1996 年 08 月 12 日/August, 12, 1996
3. CAAC 批准日期/CAAC Approved Date	1994 年 04 月 20 日/April 20, 1994

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	Allison 250-C20W, CAAC 型号认可证编号 VTC0232E (2014-04-08, 数据单 E4CE Rev.39)。
Engine	Allison 250-C20W, CAAC VTC No. VTC0232E (2014-04-08, TCDS E4CE Rev.39).
燃油	航空涡轮燃油 ASTM D1655 Jet A 或 A-1 或 ASTM D6615 Jet B; Mil-T-5624, 等级 JP-4 或 JP-5 或 Mil-DTL-83133, 等级 JP8。
Fuel	Aviation Turbine Fuels ASTM D1655, Jet A or A1; ASTM D6615, Jet B;

MIL-T-5624, JP-4 or JP-5; or MIL-DTL-83133, Grade JP-8.

发动机限制	<u>扭矩压力</u>	<u>输出轴转速</u>	<u>涡轮排气温度</u>	<u>燃气发生器转速</u>
起飞 (5 分钟)	68 磅/英寸 ² (289 马力)	103% (6196 转/分钟)	810°C	105% (53519 转/分钟)
最大连续	63 磅/英寸 ² (268 马力)	103% (6196 转/分钟)	737°C	105% (53519 转/分钟)

Engine Limits	<u>Torque Pressure</u>	<u>Output Shaft Speed</u>	<u>Turbine Outlet Temp.</u>	<u>Gas Gen Speed</u>
Takeoff (5 min.)	68 psi (289 HP)	103% (6196 RPM)	810°C	105% (53,519 RPM)
Max. Continuous	63 psi (268 HP)	103% (6196 RPM)	737°C	105% (53,519 RPM)

转速限制	<u>无动力</u>	<u>有动力</u>
最大	385 转/分钟	372 转/分钟
最小	334 转/分钟	365 转/分钟

Rotor limits	<u>Power Off</u>	<u>Power On</u>
	Maximum 385 RPM	Maximum 372 RPM
	Minimum 334 RPM	Minimum 365 RPM

空速限制 (IAS) 最大起飞重量、标准海平面天，不超过 144 英里每小时 (125 节)，见 FAA 批准的旋翼航空器飞行手册增补 No.6V_{NE} 随高度降低部分。

Airspeed limits (IAS) Never exceed 144 mph (125 knots) IAS for standard sea level day at maximum take-off gross weight. See FAA-approved Rotorcraft Flight Manual Supplement No. 6 for V_{NE} reductions with altitude.

高度限制 13000 英尺密度高度，起飞着陆过程中随总重变化的高度减少，参见 FAA 批准的旋翼航空器飞行手册。

Altitude limits 13,000 feet max. height density altitude. For reduction in take-off and landing altitude with gross weight, see FAA approved Rotorcraft Flight Manual.

重心限制	纵向:	在所有总重至 2200 磅的, 最大前重心是+134.0 英寸, 并线性递减到总重 2850 磅时的+134.35 英寸。 在所有总重至 2850 磅的, 最大后重心+143.0 英寸, 并线性递减到总重 2850 磅时的+141.5 英寸。
	横向:	最大不平衡±7500 英尺-磅
C.G. Limits	Longitudinal:	Maximum Forward C.G. is +134.0 in. at all G.W. up to 2200 lbs. decreasing linearly to +136.35 in. at 2850 lbs. Maximum Aft C.G. is +143.0 in. at all G.W. up to 2500 lbs. decreasing linearly to +141.5 in. at 2850 lbs.
	Lateral:	Maximum asymmetric moment ±7500 in.-lbs.
最大重量		2850 磅
Maximum weight		2850 lbs.
最小机组		在+99.1 英寸的一名
Minimum crew		One (1) at (+99.1 in.) station
乘客		在+89.0 英寸的 1 位加上在+113.1 英寸的 3 位或在 99.1 英寸的 1 位加上在+113.1 英寸的一位
Passengers		1 at (+89.0 in.), and 3 at (+113.1 in.); or 1 at (+99.1 in.) and 1 at (+113.1 in.)
最大行李		位于+192.0 英寸的 150 磅
Maximum baggage		150 lbs. at (+192.0 in.)
燃油容量		位于+144.6 英寸 90 加仑 (607 磅), 参见注释 1 不可用燃油数据。
Fuel capacity		90.0 gallons Total (607 lbs.) at (+144.6 in.); See NOTE 1 for data on unusable fuel.

滑油容量 (发动机油箱)	位于+153 英寸的 12.0 品脱 (12.6 磅)
Oil capacity (engine sump)	12.0 pints (12.6 lbs.) at (+153.0 in.)
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 1.5° TE 向下
Stabilizer setting	Fixed, 1.5° TE down relative to WL
序列号范围	S/N 5002 至 5042 以及 5044 (参见注释 19 适用的 5 座改型, 注释 28 适用的转换套件和注释 29 不适用序列号表)
Serial Nos. eligible	S/N 5002 thru 5042, and 5044 (See NOTE 19 for 5-place seating retrofit eligibility, NOTE 28 for conversion kit eligibility & NOTE 29 for ineligible serial numbers table)

XI. 型号 480B 直升机, 5PCLH (正常类), 2001 年 2 月 8 日批准 (参见注释 20 至 24, 26, 27, 30 至 34, 39 至 47, 50 至 58, 61 至 63 及 66)

(480B 是由 480 增加重量和功率限制衍生而来)

XI. Model 480B Helicopter, 5 PCLH (Normal Category), Approved February 8, 2001 (See NOTES 20 thru 24, 26, 27, 30 thru 34, 39 thru 47, 50 thru 58, 61 thru 63 and 66)

(The 480B is derivative of the 480 having increased gross weight and power limits.)

I. 总则/General

1. 衍生型或型别/Variant or Model	480B
适航类别/Airworthiness Category	正常类旋翼航空器/Normal Category Helicopter
型号合格证持有人/Type Certificate Holder	The Enstrom Helicopter Corporation 2209 22 nd Street Menominee, Michigan 49858-3515, USA
2. FAA 批准日期/FAA Approved Date	2001 年 02 月 08 日/February 8, 2001
3. CAAC 批准日期/CAAC Approved Date	2011 年 05 月 18 日/May 18, 2011

II 技术特性和运行限制/Technical Characteristic and Operational Limitations

发动机	Rolls-Royce 250-C20W, CAAC 型号认可证编号 VTC0232E (2014-04-08, 数据单 E4CE Rev.39)。
Engine	Rolls-Royce 250-C20W, CAAC VTC No. VTC0232E (2014-04-08, TCDS E4CE Rev. 39).
燃油	航空涡轮燃油 ASTM D1655 Jet A 或 A-1 或 ASTM D6615 Jet B; Mil-DTL-5624, 等级 JP-4 或 JP-5 或 MIL-DTL-83133, 等级 JP8。
Fuel	Aviation Turbine Fuels ASTM D1655 Jet A or A1; ASTM D6615, Jet B; MIL-T-5624,

JP-4 or JP-5; or MIL-DTL-83133, Grade JP-8.

发动机限制	<u>扭矩压力</u>	<u>输出轴转速</u>	<u>涡轮排气温度</u>	<u>燃气发生器转速</u>
起飞 (5 分钟)	72 磅/英寸 ² (305 马力)	103% (6196 转/分钟)	810°C	105% (53519 转/分钟)
最大连续	65 磅/英寸 ² (276 马力)	103% (6196 转/分钟)	737°C	105% (53519 转/分钟)

Engine Limits	<u>Torque Pressure</u>	<u>Output Shaft Speed</u>	<u>Turbine Outlet Temp.</u>	<u>Gas Gen Speed</u>
Takeoff (5 min.)	72 psi (305 HP)	103% (6196 RPM)	810°C	105% (53,519 RPM)
Max Continuous	65 psi (276 HP)	103% (6196 RPM)	737°C	105% (53,519 RPM)

转速限制	<u>无动力</u>	<u>有动力</u>
	最大 385 转/分钟	最大 372 转/分钟
	最小 334 转/分钟	最小 365 转/分钟

Rotor limits	<u>Power Off</u>	<u>Power On</u>
	Maximum 385 RPM	Maximum 372 RPM
	Minimum 334 RPM	Minimum 365 RPM

空速限制 (IAS) 最大起飞重量、标准海平面天，不超过 144 英里每小时 (124 节)，见 FAA 批准的旋翼航空器飞行手册 V_{NE} 随高度和重量变化部分。

Airspeed limits (IAS) Never exceed 144 mph (124 knots) IAS for standard sea level day at maximum take-off gross weight. See FAA-approved Rotorcraft Flight Manual for V_{NE} changes with altitude and gross weight.

高度限制 总重 3000 磅时最高为 10000 英尺密度高度。总重 2850 磅时最高为 13000 英尺密度高度，起飞和着陆高度随总重减少，参见 FAA 批准的旋翼航空器飞行手册。

Altitude limits 10,000 feet max. height density altitude at 3,000 lbs. gross weight. 13,000 feet max. height density altitude at and below 2,850 lbs. gross weight. For reduction in take-off

and landing altitude with gross weight, See FAA-approved Rotorcraft Flight Manual.

重心限制	纵向:	在所有总重至 2200 磅的, 最大前重心是+134.0 英寸, 并线性递减到总重 3000 磅时的+136.9 英寸。
		在所有总重至 2500 磅的, 最大后重心+143.0 英寸, 并线性递减至总重为 3000 磅时的+140.95 英寸。
	横向:	最大不平衡±7500 英寸-磅
C.G. Limits	Longitudinal:	Maximum Forward C.G. is +134.0 in. at all G.W. up to 2200 lbs. decreasing linearly to +136.9 in. at 3000 lbs. Maximum Aft C.G. is +143.0 in. at all G.W. up to 2500 lbs. decreasing linearly to +140.95 in. at 3,000 lbs.
	Lateral:	Maximum asymmetric moment ±7500 in.-lbs.
最大重量	3000 磅	
Maximum weight	3,000 lbs.	
最小机组	在+99.1 英寸的一名	
Minimum crew	One (1) at (+99.1 in.) station	
乘客	1 个在 (+89.0 英寸) 处, 和 3 个在 (+113.1 英寸) 处; 或 1 个在 (+99.1 英寸) 处和 1 个在 (+113.1 英寸) 处; 或 1 个在 (+101.0 英寸) 处和 2 个在 (+113.1 英寸) 处 (参见注释 34)	
Passenger	1 at (+89.0 in.), and 3 at (+113.1 in.); or 1 at (+99.1 in.) and 1 at (+113.1 in.); or 1 at (+101.0 in.) and 2 at (+113.1 in.) (See NOTE 34)	
最大行李	150 磅在 (+192.0 英寸)	
Maximum baggage	150 lbs. at (+192.0 in.)	

燃油容量	位于+144.6 英寸 90 加仑, 参见注释 1 不可用燃油数据
Fuel capacity	90.0 gallons Total at (+144.6 in.); See NOTE 1 for data on unusable fuel.
滑油容量 (发动机油箱)	位于+153 英寸的 12.0 品脱 (12.6 磅)
Oil capacity (engine sump)	12.0 pints (12.6 lbs.) at (+153.0 in.)
控制系统校准	参考维护手册
Control system rigging	Refer to Maintenance Manual.
安定面安装	固定的, 相对于水平面 1.5° TE 向下
Stabilizer setting	Fixed, 1.5° TE down relative to WL
序列号范围	S/N 5043,5045 及以后 (参见注释 28 转换工具包适用性和注释 29 不适用的序列号表)
Serial Nos. eligible	S/N 5043, 5045 and subsequent (See NOTE 28 for conversion kit eligibility and NOTE 29 for ineligible serial numbers table)

第 3 部分 所有型号相关数据//SECTION 3 Data Pertinent to All Models

基准	活塞动力型 - 主旋翼桨毂中心和旋翼航空器中心线向前 100 英寸 涡轮动力型 - 主旋翼桨毂中心线向前 143.3 英寸
Datum	Piston-powered Models - 100 inches forward of the center of the main rotor hub and the centerline of the rotorcraft. Turbine-powered Models - 143.3 inches forward of main rotor hub centerline.
水平测量方式	吊舱部分较低主梁
Leveling Means	Lower longeron of pylon section.
审定基础	活塞动力型 - CAR Part6 (生效日期 1956 年 12 月 10 日), 修正案 6-1 至 6-5; 和 FAR21.25(a)(1) (生效日期 1965 年 2 月 1 日) 专门为了按 FAR21.25(b) 农业操作。参见注释 6。此外, F-28F 和 280FX 型号证明满足 FAR36, 修正案 20 (附录 J) (生效日期 1992 年 9 月 11 日) TC 申请日期 1962 年 7 月 26 日 TC No. H1CE 颁证日期 1965 年 4 月 15 日 涡轮动力型 - FAR Part27 (生效日期 1964 年 11 月 24 日), 修正案 27-1 至 27-3 (生效日期 1988 年 9 月 2 日); FAR27.337, 27.351, 27.395, 27.401, 27.501, 27.613, 27.629, 27.663, 27.685, 27.727, 27.783, 27.861 和 27.865(a) (修正案 27-26, 生效日期 1990 年 4 月 5 日); FAR27.775 (修正案 27-27, 生效日期 1990 年 10 月 22 日); FAR27.2 (修正案 27-28, 生效日期 1991 年 8 月 16 日; 和 FAR Part36 修正案 20 (附录 J) (生效日期 1992 年 9 月 11 日) <u>注:</u> 原审定基础为 Civil Air Regulation (CAR) Part6 (修正案 6-1 至 6-8, 1956 年 12 月 20 日生效); 涡轮发动机安装、进气系统、燃油系统、润滑系统和适航限制采用 FAR Part27 (修正案 23, 生效日期 1988 年 9 月 2 日); 起落架采用 FAR Part27 (修正案 26, 生效日期 1990 年 4 月 5 日) 和 FAR Part36, 修正案 20 (附录 J) (生效日期 1992 年 9 月 11 日)。1994 年 12 月 2 日原型号设计数据重新检查并确认满足 FAR27 的要求。

TC 申请日期 1988 年 11 月 17 日

TC No.H1CE 1992 年 9 月 11 日修订, 2001 年 2 月 8 日重新颁发。

Certification Basis

Piston-powered Models - Part 6 of the Civil Air Regulation effective December 20, 1956, as amended by 6-1 thru 6-5; and 14 CFR 21.25 (a) (1) effective February 1, 1965 for special purpose of agricultural operation per 14 CFR 21.25(b). See NOTE 6 for portions of Part 6 of the Civil Air Regulations considered inappropriate for restricted category operations. In addition, the F-28F and 280FX Models have demonstrated compliance with 14 CFR 36, amendment 20 (Appendix J), effective September 11, 1992.

Application for Type Certificate dated July 26, 1962.

Type Certification No. H1CE issued April 15, 1965.

Turbine-powered Models - Federal Aviation Regulation 14 CFR Part 27, effective February 1, 1965, as amended by 27-1 thru 27-23, effective October 3, 1988; 14 CFR 27.337, 27.351, 27.395, 27.401, 27.501, 27.613, 27.629, 27.663, 27.685, 27.727, 27.783, 27.861, and 27.865 (a) as amended by 27-26, effective April 5, 1990; 14 CFR 27.775 as amended by 27-27, effective October 22, 1990; 14 CFR 27.2 as amended by 27-28, effective September 16, 1991; and 14 CFR Part 36, amendment 20 (Appendix J), effective September 11, 1992.

NOTE: Originally certificated to Part 6 of the Civil Air Regulation effective December 20, 1956, as amended by 6-1 thru 6-5; Federal Aviation Regulation 14 CFR Part 27, amendment 23, effective October 3, 1988, for the turbine engine installation, induction system, fuel system, lubrication system, and airworthiness limitations; 14 CFR Part 27, amendment 26, effective April 5, 1990, for the landing gear; and 14 CFR Part 36, amendment 20 (Appendix J), effective September 11, 1992. The original Type Design Data was reexamined and found to comply with 14 CFR 27 on December 2, 1994.

Application for Type Certificate dated November 17, 1988.

Type Certificate No. H1CE amended September 11, 1992; Reissued February 8, 2001.

CAAC 认可审定基础

CAAC 的认可审定基础由 FAA 的审定基础和 CAAC 附加技术条件组成。

中国民用航空局附加技术条件:

(1) 根据 CCAR 21.29 (5), 有关适航规章、噪声规定所要求的手册、标牌、目录清单和仪表标记应当用中文或英文书写, 下列各项应当至少有中文表述:

- 1) 机上所有对旅客进行的提示、警告和通知的文字标记和标牌;
- 2) 机上所有向乘客或机外营救人员指示应急出口和门的位置以及开启方法的文字标记和标牌;
- 3) 旅客可能使用的机上所有应急设备的操作、使用说明。

如有其他的中文标记或标牌, 应该得到 CAAC 的接受或批准。

(2) 对于涡轮动力型号, 必须确定符合“GB6537-2006 3 号喷气燃料”规范的燃料是可接受的;

CAAC Validation Certification Basis

The CAAC validation basis consists of the FAA certification basis and the CAAC additional technical conditions.

CAAC Additional Technical Conditions:

(1). As per CCAR 21.29(5), All manuals, placards, category lists, and instrument markings required by the airworthiness regulation and noise requirement shall be in Chinese or English, following items shall be presented in Chinese at least:

- 1) All on-board placard and marking for aware, warning, and note to the passenger;
- 2) All on-board placard and marking for opening method and location indication of the emergency exit and door to passenger and outside rescuer;
- 3) Operational instructions for all on-board emergency equipment possible operated by passengers.

All other placards and markings in Chinese, if any, shall be accepted or approved by the CAAC.

(2). For Turbine Models, the acceptance of fuel which confirms to the Specification GB6537-2006 “No. 3 Jet Fuel” must be defined.

中文标记标牌	活塞型号的中文标牌和标识包含在图纸 28-22236 Rev.D 或以后批准的更新版本中，涡轮型号的中文标牌和标识包含在图纸 4220608 Rev.F 或以后批准的更新版本中。
Chinese Placard and markings	For piston models, the Chinese Placards and markings are included in Drawing No. 28-22236 Rev D or later revisions approved. For turbine models, the Chinese Placards and markings are included in Drawing No. 4220608 Rev F or later revisions approved.
生产基础	生产许可证号 No. 319CE（适用型号的有效性和符合性需求参见注释 49）
Production Basis	Production Certificate No. 319CE (See NOTE 49 for applicable model effectivity and compliance requirements)
设备	直升机审定时根据适航规章（见审定基础）所需要的基本的设备必须安装。另外，需要要有以下与设备有关的项目： <u>F-28F Models:</u> (a) FAA 1980 年 12 月 31 日批准的旋翼航空器飞行手册，或后续经批准的修订版； (b) FAA1980 年 12 月 31 日批准的旋翼航空器飞行手册增补 No.1，或后续经批准的修订版（对农用组件重量至 2600 磅的限制类），参见注释 6； (c) FAA 1980 年 12 月 31 日批准的旋翼航空器飞行手册增补 No.2，或后续经批准的修订版（对浮筒起落架），参见注释 7； (d) FAA 1980 年 12 月 31 日批准的旋翼航空器飞行手册增补 No.3，或后续经批准的修订版（对载荷扩展），参见注释 8； (e) FAA 1980 年 12 月 31 日批准的旋翼航空器飞行手册增补 No.4，或后续经批准的修订版（对雪鞋），参见注释 9； (f) FAA 1981 年 6 月 26 日批准的旋翼航空器飞行手册增补 No.6，或后续经批准的修订版（对右侧驾驶构型），参见注释 14； (g) 删除 ； (h) FAA 1981 年 11 月 20 日批准的旋翼航空器飞行手册增补 No.8，或后续经批准的修订版（对应急浮筒起落架），参见注释 8；

(i) 删除;

(j) FAA 1983 年 9 月 23 日批准的旋翼航空器飞行手册增补 No.11, 或后续经批准的修订版(对辅助油箱), 参见注释 17;

(k) FAA1986 年 7 月 16 日批准的旋翼航空器飞行手册增补 No.12, 或后续经批准的修订版(对消音器安装), 参见注释 18;

(l) FAA 2008 年 11 月 7 日批准的旋翼航空器飞行手册增补 No.28-AC-028, 或后续经批准的修订版(对导航/通讯收发机), 参见注释 35。(仅对 F-28F);

(m) FAA 2008 年 11 月 14 日批准的旋翼航空器飞行手册增补 No.28-AC-029, 或后续经批准的修订版(对高度数据系统), 参见注释 36 (仅对 F-28F);

(n) FAA 2008 年 12 月 5 日批准的旋翼航空器飞行手册增补 No.28-AC-031, 或后续经批准的修订版(对导航系统), 参见注释 37 (仅对 F-28F);

(o) FAA 2008 年 12 月 8 日批准的旋翼航空器飞行手册增补 No.28-AC-032, 或后续经批准的修订版(对 XM WX 卫星气象/无线电接收机), 参见注释 38 (仅对 F-28F)。

(p) FAA 2014 年 1 月 26 日批准的旋翼航空器飞行手册增补 No.28-AC-056, 或后续经批准的修订版(对 NAV/COM 系统), 参见注释 48 (仅对 F-28F)。

(q) FAA 2015 年 7 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-069, 或后续经批准的修订版(对带有 MD200-306 CDI 的导航系统), 参见注释 59 (仅对 F-28F)。

(r) FAA 2015 年 7 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-070, 或后续经批准的修订版(对带有 ADS-B Out 的收发机), 参见注释 60 (仅对 F-28F)。

(s) FAA 2017 年 12 月 6 日批准的旋翼航空器飞行手册增补 No. 28-AC-074, 或后续经批准的修订版(对 Nav/Com 收发机), 参见注释 64 和 65 (仅对 F-28F)。

280FX Models:

(a) FAA 1985 年 1 月 11 日批准的旋翼航空器飞行手册, 或后续经批准的修订版;

(b) FAA 1991 年 1 月 11 日批准的旋翼航空器飞行手册增补 No.1, 或后续经批准的修订版(对农用组件), 参见注释 6;

(c) FAA 1985 年 7 月 12 日批准的旋翼航空器飞行手册增补 No.2, 或后续经批准的修订版（对浮筒式起落架），参见注释 7;

(d) FAA 1985 年 1 月 11 日批准的旋翼航空器飞行手册增补 No.3, 或后续经批准的修订版（对载荷扩展）;

(e) FAA 1989 年 5 月 11 日批准的旋翼航空器飞行手册增补 No.4, 或后续经批准的修订版（对雪鞋），参见注释 9;

(f) 删除;

(g) FAA 1985 年 1 月 11 日批准的旋翼航空器飞行手册增补 No.11, 或后续经批准的修订版（对辅助油箱），参见注释 17;

(h) FAA 1986 年 7 月 16 日批准的旋翼航空器飞行手册增补 No.12, 或后续经批准的修订版（对消音器安装），参见注释 18;

(i) FAA 2008 年 11 月 7 日批准的旋翼航空器飞行手册增补 No. 28-AC-028, 或后续经批准的修订版（对导航/通讯收发机），参见注释 35;

(j) FAA 2008 年 11 月 14 日批准的旋翼航空器飞行手册增补 No.28-AC-029, 或后续经批准的修订版（对高度数据系统），参见注释 36;

(k) FAA 2008 年 12 月 5 日批准的旋翼航空器飞行手册增补 No.28-AC-031, 或后续经批准的修订版（对导航系统），参见注释 37;

(l) FAA 2008 年 12 月 8 日批准的旋翼航空器飞行手册增补 No.28-AC-032, 或后续经批准的修订版（对 XM WX 卫星气象/无线电接收机），参见注释 38;

(m) FAA 2014 年 1 月 16 日批准的旋翼航空器飞行手册增补 No. 28-AC-056, 或后续经批准的修订版（对 Nav/Com 系统），参见注释 48。

(n) FAA 2015 年 7 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-069, 或后续经批准的修订版（对带有 MD200-306 CDI 的导航系统），参见注释 59。

(o) FAA 2015 年 7 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-070, 或后续经批准的修订版（对带有 ADS-B Out 的收发机），参见注释 60。

(p) FAA 2017 年 12 月 6 日批准的旋翼航空器飞行手册增补 No. 28-AC-074, 或后续经批准的修订版（对 Nav/Com 收发机），参见注释 64 和 65。

TH-28 Models:

(a) FAA 1992 年 9 月 11 日批准的旋翼航空器飞行手册。

480 Models:

- (a) FAA 1993 年 6 月 7 日批准的旋翼航空器飞行手册或后续经批准的版本。
- (b) FAA 1994 年 6 月 1 日批准的旋翼航空器飞行手册增补 No.1, 或后续经批准的修订版（货物钩），参见注释 20。
- (c) FAA 1994 年 6 月 1 日批准的旋翼航空器飞行手册增补 No.2, 或后续经批准的修订版（雪鞋），参见注释 21。
- (d) FAA 1994 年 6 月 1 日批准的旋翼航空器飞行手册增补 No.3, 或后续经批准的修订版（外部燃油滤），参见注释 22。
- (e) FAA 1994 年 6 月 1 日批准的旋翼航空器飞行手册增补 No.4, 或后续经批准的修订版（行李箱扩展），参见注释 23。
- (f) FAA 1996 年 8 月 12 日批准的旋翼航空器飞行手册增补 No.5, 或后续经批准的修订版（相机门），参见注释 24。
- (g) FAA 1996 年 8 月 12 日批准的旋翼航空器飞行手册增补 No.6, 或后续经批准的修订版（增加旋翼转速和扭矩限制），参见注释 25。
- (h) FAA 1996 年 11 月 27 日批准的旋翼航空器飞行手册增补 No.7, 或后续经批准的修订版（空调），参见注释 26。
- (i) FAA 1998 年 1 月 23 日批准的旋翼航空器飞行手册增补 No.8, 或后续经批准的修订版（弹出式浮筒），参见注释 27。
- (j) FAA 2011 年 2 月 24 日批准的旋翼航空器飞行手册增补 No.28-AC-042, 或后续经批准的修订版（电力线检测系统），参见注释 44。
- (k) FAA 2013 年 5 月 1 日批准的旋翼航空器飞行手册增补 No.28-AC-055 或后续经批准的修订版（导航系统），参见注释 63。
- (l) FAA 2014 年 5 月 14 日批准的旋翼航空器飞行手册增补 No. 28-AC-059 或后续经批准的修订版（脉冲着陆灯），参见注释 51。

480B Models:

- (a) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册，或后续经批准的修订版；
- (b) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册增补 No.1, 或后续经

批准的修订版（货物钩），参见注释 20;

(c) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册增补 No.2, 或后续经批准的修订版（雪鞋），参见注释 21;

(d) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册增补 No.3, 或后续经批准的修订版（外部燃油滤），参见注释 22;

(e) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册增补 No.4, 或后续经批准的修订版（行李箱扩展），参见注释 23;

(f) FAA 2001 年 2 月 9 日批准的旋翼航空器飞行手册增补 No.5, 或后续经批准的修订版（相机门），参见注释 24;

(g) FAA 2003 年 9 月 5 日批准的旋翼航空器飞行手册增补 No.6, 或后续经批准的修订版（弹出式浮筒），参见注释 27;

(h) FAA 2004 年 9 月 9 日批准的旋翼航空器飞行手册增补 No.7, 或后续经批准的修订版（空调），参见注释 26;

(i) FAA 2006 年 6 月 6 日批准的旋翼航空器飞行手册增补 No.8, 或后续经批准的修订版（相机支架），参见注释 30;

(j) FAA 2006 年 6 月 6 日批准的旋翼航空器飞行手册增补 No.9, 或后续经批准的修订版（搜索灯），参见注释 31;

(k) FAA 2008 年 2 月 11 日批准的旋翼航空器飞行手册增补 No.28-AC-025, 版本-（机头相机），参见注释 32;

(l) FAA 2008 年 2 月 14 日批准的旋翼航空器飞行手册增补 No.10, 或后续经批准的修订版（EFis），参见注释 33;

(m) FAA 2009 年 10 月 21 日批准的旋翼航空器飞行手册增补 No.28-AC-036, 或后续经批准的修订版（2+2 座椅构型），参见注释 34;

(n) FAA 2008 年 11 月 5 日批准的旋翼航空器飞行手册增补 No.28-AC-027, 或后续经批准的修订版（交通咨询系统），参见注释 39;

(o) FAA 2008 年 11 月 18 日批准的旋翼航空器飞行手册增补 No.28-AC-030, 或后续经批准的修订版（导航/通讯收发机），参见注释 40;

(p) FAA 2009 年 3 月 9 日批准的旋翼航空器飞行手册增补 No.28-AC-035, 或后续经批准的修订版（高度数据系统），参见注释 41;

(q) FAA 2011 年 11 月 10 日批准的旋翼航空器飞行手册增补 No.28-AC-038 版本 1（TACAN 系统），参见注释 42;

- (r) FAA 2010 年 9 月 10 日批准的旋翼航空器飞行手册增补 No.28-AC-040, 或后续经批准的修订版 (VHF, UHF 无线电通讯系统及音频系统), 参见注释 43;
- (s) FAA 2011 年 2 月 24 日批准的旋翼航空器飞行手册增补 No.28-AC-042, 或后续经批准的修订版 (电力线检测系统), 参见注释 44;
- (t) FAA 2011 年 1 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-043, 或后续经批准的修订版 (偏宽仪表面板), 参见注释 45;
- (u) FAA 2011 年 1 月 25 日批准的旋翼航空器飞行手册增补 No.28-AC-048, 或后续经批准的修订版 (双通道音频控制器和混音放大器), 参见注释 46;
- (v) FAA 2012 年 5 月 8 日批准的旋翼航空器飞行手册增补 No. 28-AC-049, 或后续经批准的修订版; (EHSI), 参见注释 47;
- (w) FAA 2014 年 6 月 5 日批准的旋翼航空器飞行手册增补 No. 28-AC-051, 或后续经批准的修订版 (音频面板), 参见注释 50;
- (x) FAA 2014 年 5 月 14 日批准的旋翼航空器飞行手册增补 No. 28-AC-059, 或后续经批准的修订版 (脉冲着陆灯), 参见注释 51;
- (y) FAA 2014 年 6 月 5 日批准的旋翼航空器飞行手册增补 No. 28-AC-060, 或后续经批准的修订版 (集成飞行甲板), 参见注释 52;
- (z) FAA 2014 年 6 月 5 日批准的旋翼航空器飞行手册增补 No. 28-AC-061, 或后续经批准的修订版 (交通咨询系统), 参见注释 53;
- (aa) FAA 2014 年 6 月 5 日批准的旋翼航空器飞行手册增补 No. 28-AC-062, 或后续经批准的修订版 (XM WX 卫星气象/无线电收发机), 参见注释 54;
- (ab) FAA 2014 年 11 月 12 日批准的旋翼航空器飞行手册增补 No. 28-AC-063, 或后续经批准的修订版 (NAV/COM 收发机), 参见注释 55;
- (ac) FAA 2014 年 8 月 7 日批准的旋翼航空器飞行手册增补 No. 28-AC-064, 或后续经批准的修订版 (导航系统), 参见注释 56;
- (ad) FAA 2014 年 8 月 7 日批准的旋翼航空器飞行手册增补 No. 28-AC-065, 或后续经批准的修订版 (A/C 模式收发机), 参见注释 57;
- (ae) FAA 2015 年 2 月 8 日批准的旋翼航空器飞行手册增补 No. 28-AC-068, 或后续经批准的修订版 (GPS/NAV/COM (NAV Disabled)), 参见注释 58。
- (af) FAA 2015 年 10 月 20 日批准的旋翼航空器飞行手册增补 No.28-AC-071, 或后续经批准的修订版 (无线电高度表), 参见注释 61。

(ag) FAA 2013 年 4 月 30 日批准的旋翼航空器飞行手册增补 No.28-AC-024, 或后续经批准的修订版（外部挂载接口组件），参见注释 62。

(ah) FAA 2013 年 5 月 1 日批准的旋翼航空器飞行手册增补 No. 28-AC-055 或后续经批准的修订版（导航系统），参见注释 63。

(ai) FAA 2018 年 3 月 23 日批准的旋翼航空器飞行手册增补 No. 28-AC-067, 或后续经批准的修订版（Vision 1000），参见注释 66。

所有型别:

(a) 每一架旋翼航空器必须配备对应型别的维护手册。

Equipment

The basic required equipment as prescribed in the applicable airworthiness regulations (see Certification basis) must be installed in the helicopter for certification. In addition, the following items of equipment are required:

F-28F Models:

(a) FAA Approved Rotorcraft Flight Manual dated December 31, 1980, or later FAA approved revision is required.

(b) FAA Approved Rotorcraft Flight Manual Supplement No. 1 dated December 31, 1980, or later FAA approved revision is required; (For Agricultural Kit to 2600 lbs. - Restricted Category) See NOTE 6.

(c) FAA Approved Rotorcraft Flight Manual Supplement No. 2 dated December 31, 1980, or later FAA approved revision is required; (For Float Landing Gear) See NOTE 7.

(d) FAA Approved Rotorcraft Flight Manual Supplement No. 3 dated December 31, 1980, or later FAA approved revision is required; (For External Loads) See NOTE 8.

(e) FAA Approved Rotorcraft Flight Manual Supplement No. 4 dated December 31, 1980, or later FAA approved revision is required; (For Snowshoes) See NOTE 9.

(f) FAA Approved Rotorcraft Flight Manual Supplement No. 6 dated June 26, 1981, or later FAA approved revision is required; (For Right Side Pilot Configuration) See NOTE 14.

(g) Deleted

(h) FAA Approved Rotorcraft Flight Manual Supplement No. 8 dated November 20, 1981, or later FAA approved revision is required; (For Emergency Float Landing Gear) See NOTE 7.

(i) Deleted

(j) FAA Approved Rotorcraft Flight Manual Supplement No. 11 dated September 23, 1983, or later FAA approved revision is required; (For Auxiliary Fuel Tank) See NOTE 17.

(k) FAA Approved Rotorcraft Flight Manual Supplement No. 12 dated July 16, 1986, or later FAA approved revision is required; (For Muffler Installation) See NOTE 18.

(l) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-028 dated November 7, 2008, or later FAA approved revision is required; (For Nav/Com Transceiver) See NOTE 35. (F-28F only)

(m) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-029 dated November 14, 2008, or later FAA approved revision is required; (For Altitude Data System) See NOTE 36. (F-28F only)

(n) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-031 dated December 5, 2008, or later FAA approved revision is required; (For Navigation System) See NOTE 37. (F-28F only)

(o) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-032 dated December 8, 2008, or later FAA approved revision is required; (For XM WX Satellite Weather/Radio Receiver) See NOTE 38. (F-28F only)

(p) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-056 dated January 16, 2014, or later FAA approved revision is required; (For NAV/COM System) See NOTE 48. (F-28F only)

(q) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-069 dated July 27, 2015, or later FAA approved revision is required; (For Navigation System with MD200-306 CDI) See NOTE 59. (F-28F only)

(r) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-070 dated July 27, 2015, or later FAA approved revision is required; (For Transponder with ADS-B Out) See NOTE 60. (F-28F only)

(s) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-074 dated December 6, 2017, or later FAA approved revision is required; (For Nav/Com Transceiver) See NOTE 64 and 65. (F-28F only)

280FX Models:

(a) FAA Approved Rotorcraft Flight Manual dated January 11, 1985, or later FAA approved revision is required.

(b) FAA Approved Rotorcraft Flight Manual Supplement No. 1 dated January 11, 1991, or later FAA approved revision is required; (For Agricultural Kit) See NOTE 6.

(c) FAA Approved Rotorcraft Flight Manual Supplement No. 2 dated July 12, 1985, or later FAA approved revision is required; (For Float Landing Gear) See NOTE 7.

(d) FAA Approved Rotorcraft Flight Manual Supplement No. 3 dated January 11, 1985, or later FAA approved revision is required; (For External Loads)

(e) FAA Approved Rotorcraft Flight Manual Supplement No. 4 dated May 11, 1989, or later FAA approved revision is required; (For Snowshoes) See NOTE 9.

(f) Deleted

(g) FAA Approved Rotorcraft Flight Manual Supplement No. 11 dated January 11, 1985, or later FAA approved revision is required; (For Auxiliary Fuel Tank) See NOTE 17.

(h) FAA Approved Rotorcraft Flight Manual Supplement No. 12 dated July 16, 1986, or later FAA approved revision is required; (For Muffler Installation) See NOTE 18.

(i) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-028 dated November 7, 2008, or later FAA approved revision is required; (For Nav/Com Transceiver) See NOTE 35.

(j) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-029 dated November 14, 2008, or later FAA approved revision is required; (For Altitude Data System) See NOTE 36.

(k) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-031 dated December 5, 2008, or later FAA approved revision is required; (For Navigation

System) See NOTE 37.

(l) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-032 dated December 8, 2008, or later FAA approved revision is required; (For XM WX Satellite Weather/Radio Receiver) See NOTE 38.

(m) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-056 dated January 16, 2014, or later FAA approved revision is required; (For Nav/Com System) See NOTE 48.

(n) FAA Approved Rotorcraft Flight Manual Supplement No.28-AC-069 dated July 27, 2015, or later FAA approved revision is required; (For Navigation System with MD200-306 CDI) See NOTE 59.

(o) FAA Approved Rotorcraft Flight Manual Supplement No.28-AC-070 dated July 27, 2015, or later FAA approved revision is required; (For Transponder with ADS-B Out) See NOTE 60.

(p) FAA Approved Rotorcraft Flight Manual Supplement No. 28-AC-074 dated December 6, 2017, or later FAA approved revision is required; (For Nav/Com Transceiver) See NOTE 64 and 65.

TH-28 Models:

(a) FAA Approved Rotorcraft Flight Manual dated September 11, 1992.

480 Models:

(a) FAA approved Rotorcraft Flight Manual dated June 7, 1993, or later FAA approved revision is required.

(b) FAA approved Rotorcraft Flight Manual Supplement No. 1 dated June 1, 1994, or later FAA approved revision is required; (For Cargo Hook) See NOTE 20.

(c) FAA approved Rotorcraft Flight Manual Supplement No. 2 dated June 1, 1994, or later FAA approved revision is required; (For Snowshoes) See NOTE 21.

(d) FAA approved Rotorcraft Flight Manual Supplement No. 3 dated June 1, 1994, or later FAA approved revision is required; (For External Fuel Filter) See

NOTE 22.

(e) FAA approved Rotorcraft Flight Manual Supplement No. 4 dated June 1, 1994, or later FAA approved revision is required; (For Baggage Box Extension) See NOTE 23.

(f) FAA approved Rotorcraft Flight Manual Supplement No. 5 dated August 12, 1996, or later FAA approved revision is required; (For Camera Door) See NOTE 24.

(g) FAA approved Rotorcraft Flight Manual Supplement No. 6 dated August 12, 1996, or later FAA approved revision is required; (For Increased Rotor Speeds and Torque Limits) See NOTE 25.

(h) FAA approved Rotorcraft Flight Manual Supplement No. 7 dated November 27, 1996, or later FAA approved revision is required; (For Air Conditioning) See NOTE 26.

(i) FAA approved Rotorcraft Flight Manual Supplement No. 8 dated January 23, 1998, or later FAA approved revision is required; (For Pop-out Floats) See NOTE 27.

(j) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-042 dated February 24, 2011, or later FAA approved revision is required; (For Powerline Detection System) See NOTE 44.

(k) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-055 dated May 1, 2013, or later FAA approved revision is required; (For Navigation System) See NOTE 63.

(l) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-059 dated May 14, 2014 or later FAA approved revision is required; (For Pulse Landing Light) See NOTE 51.

480B Models:

(a) FAA approved Rotorcraft Flight Manual dated February 9, 2001, or later FAA approved revision is required.

(b) FAA approved Rotorcraft Flight Manual Supplement No. 1 dated February 9, 2001, or later FAA approved revision is required; (For Cargo Hook) See NOTE 20.

- (c) FAA approved Rotorcraft Flight Manual Supplement No. 2 dated February 9, 2001, or later FAA approved revision is required; (For Snowshoes) See NOTE 21.
- (d) FAA approved Rotorcraft Flight Manual Supplement No. 3 dated February 9, 2001, or later FAA approved revision is required; (For External Fuel Filter) See NOTE 22.
- (e) FAA approved Rotorcraft Flight Manual Supplement No. 4 dated February 9, 2001, or later FAA approved revision is required; (For Baggage Box Extension) See NOTE 23.
- (f) FAA approved Rotorcraft Flight Manual Supplement No. 5 dated February 9, 2001, or later FAA approved revision is required; (For Camera Door) See NOTE 24.
- (g) FAA approved Rotorcraft Flight Manual Supplement No. 6 dated September 5, 2003, or later FAA approved revision is required; (For Popout Floats) See NOTE 27.
- (h) FAA approved Rotorcraft Flight Manual Supplement No. 7 dated September 9, 2004, or later FAA approved revision is required; (For Air Conditioning) See NOTE 26.
- (i) FAA approved Rotorcraft Flight Manual Supplement No. 8 dated June 6, 2006, or later FAA approved revision is required; (For Camera Mount) See NOTE 30.
- (j) FAA approved Rotorcraft Flight Manual Supplement No. 9 dated June 6, 2006, or later FAA approved revision is required; (For Searchlight) See NOTE 31.
- (k) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-025 Revision -, dated February 11, 2008, is required; (For Nose-Mounted Camera) See NOTE 32.
- (l) FAA approved Rotorcraft Flight Manual Supplement No. 10 dated February 14, 2008, or later FAA approved revision is required; (For EFis) See NOTE 33.
- (m) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-036 dated October 21, 2009, or later FAA approved revision is required; (For 2+2 Seating Configuration) See NOTE 34.

- (n) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-027 dated November 5, 2008, or later FAA approved revision is required; (For Traffic Advisory System) See NOTE 39.
- (o) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-030 dated November 18, 2008, or later FAA approved revision is required; (For NAV/COM Transceiver) See NOTE 40.
- (p) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-035 dated March 9, 2009, or later FAA approved revision is required; (For Altitude Data System) See NOTE 41.
- (q) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-038 Revision 1, dated November 10, 2011, is required; (For TACAN System) See NOTE 42.
- (r) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-040 dated September 10, 2010, or later FAA approved revision is required; (For VHF Communication Radio System, UHF Communication Radio System, and Audio System) See NOTE 43.
- (s) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-042 dated February 24, 2011, or later FAA approved revision is required; (For Powerline Detection System) See NOTE 44.
- (t) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-043 dated January 25, 2011 or later FAA approved revision is required; (For Partial Wide Instrument Panel) See NOTE 45.
- (u) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-048 dated January 25, 2011 or later FAA approved revision is required; (For Dual Channel Audio Controller and Audio Mixing Amplifier) See NOTE 46.
- (v) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-049 dated May 8, 2012 or later FAA approved revision is required; (For EHSD) See NOTE 47.
- (w) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-051 dated June 5, 2014 or later FAA approved revision is required; (For Audio Panel) See NOTE 50.
- (x) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-059 dated May 14, 2014 or later FAA approved revision is required; (For Pulse Landing

Light) See NOTE 51.

(y) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-060 dated June 5, 2014 or later FAA approved revision is required; (For Integrated Flight Deck) See NOTE 52.

(z) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-061 dated June 5, 2014 or later FAA approved revision is required; (For Traffic Advisory System) See NOTE 53.

(aa) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-062 dated June 5, 2014 or later FAA approved revision is required; (For XM WX Satellite Weather/Radio Receiver) See NOTE 54.

(ab) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-063 dated November 12, 2014 or later FAA approved revision is required; (For NAV/COM Transceiver) See NOTE 55.

(ac) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-064 dated August 7, 2014 or later FAA approved revision is required; (For Navigation System) See NOTE 56.

(ad) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-065 dated August 7, 2014 or later FAA approved revision is required; (For Mode A/C Transponder) See NOTE 57.

(ae) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-068 dated February 18, 2015 or later FAA approved revision is required; (For GPS/NAV/COM (NAV Disabled) See NOTE 58.

(af) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-071 dated October 20, 2015 or later FAA approved revision is required; (For Radar Altimeter) See NOTE 61.

(ag) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-024 dated April 30, 2013 or later FAA approved revision is required; (For External Load Interface Kit) See NOTE 62.

(ah) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-055 dated May 1, 2013, or later FAA approved revision is required; (For Navigation System) See NOTE 63.

(ai) FAA approved Rotorcraft Flight Manual Supplement No. 28-AC-067 dated

March 23, 2018, or later FAA approved revision is required; (For Vision 1000)
See NOTE 66.

All Models:

(a) Each rotorcraft must be furnished with a Maintenance Manual applicable to that model.

第 4 部分 注释/SECTION 4 NOTE

注释 1 根据 14 CFR 27.29, 当前重量和平衡报告所含设备清单包括在审定空重和装载指导中, 必要时为每架直升机提供原始审定时的重量平衡报告。

对活塞动力型号, 审定空重和对应重心位置必须包括不可用燃油, 对 30 加仑油箱为 0.3 加仑 (+98), 42 加仑油箱为 2.0 加仑 (+94) 以及 4 磅 (+96) 无法排净滑油。

对涡轮动力型号, 审定空重和对应重心位置必须包括包含下表所列不可用燃油:

<u>机型</u>	<u>燃油箱件号</u>	<u>不可用燃油</u>
TH-28	4122000	1.8 加仑在+143.4 英寸
	4122009-1 & -2	0.3 加仑在+143.4 英寸
	4122009-1, -2, & -4	0.3 加仑在+143.4 英寸
480	4122009-1, -2, & -4	0.3 加仑在+143.4 英寸
	4122052-1 & -2	1.7 加仑在+143.4 英寸
480B	4122052-1 & -2	1.7 加仑在+143.4 英寸

NOTE 1 A current weight and balance report, including list of equipment included in certificated empty weight and loading instructions when necessary, must be provided for each helicopter at the time of original certification. This is in accordance with 14 CFR 27.29.

For piston-engine powered models, the certificated empty weight and corresponding center of gravity locations must include unusable fuel of 0.3 gal. (+98) for 30 gal. tanks, 2.0 gal. (+94) for 42 gal. tanks; and undrainable oil of 4 lbs. (+96).

For turbine-engine powered models, certificated empty weight and corresponding center of gravity locations must include unusable fuel as tabulated below:

<u>Model</u>	<u>Fuel Bladder Part Number</u>	<u>Unusable Fuel</u>
TH-28	4122000	1.8 gal. at +143.4 in.

	4122009-1 & -2	0.3 gal. at +143.4 in.
	4122009-1, -2, & -4	0.3 gal. at +143.4 in.
480	4122009-1, -2, & -4	0.3 gal. at +143.4 in.
	4122052-1 & -2	1.7 gal. at +143.4 in.
480B	4122052-1 & -2	1.7 gal. at +143.4 in.

注释 2 根据 14 CFR 27.1541 至 27.1565 的要求，所有 FAA 批准的飞行手册、适用的运行规则或审定基础所要求的标牌必须按规范安装。

下述标牌必须显示在飞行员前，且在视界范围内清晰可见：

"This helicopter must be operated in compliance with operating limitations specified in the Approved Rotorcraft Flight Manual."

NOTE 2 All placards required by either the FAA-Approved Rotorcraft Flight Manual, the applicable operating rules, or the certification basis must be installed as specified. This is in accordance with 14 CFR 27.1541 thru 27.1565.

The following placard must be displayed in front of and in clear view of the pilot:

"This helicopter must be operated in compliance with operating limitations specified in the Approved Rotorcraft Flight Manual."

注释 3 更换项目和强制检查项目包含在相关型号的维护手册中，关键件更换时间列在本数据单表 1 和表 2 中，强制检查项目列在表 3 中。这些使用寿命的更换时间值在未得到 FAA 工程批准前不能延长。

对于 Enstrom 型号 F-28F 直升机，无论是限制类还是正常类，如果符合下列的构型，均符合按最大重量 2600 磅运行的条件

<u>类别</u>	<u>用途 - 构型要求</u>
限制类	农用喷洒 - 构型按注释 6.
限制类	浮筒 - 构型按注释 7.
限制类	外挂货物 - 构型按注释 8

正常类

构型按注释 16

一旦直升机的使用超出总重 2350 磅，在至批准的最大 2600 磅之间的，必须采用针对 2600 磅的使用寿命要求。

下面的特殊符号表示使用寿命表的具体限制和/或与批准的总重和寿命相关的特殊条件，表 1 适用于所有活塞动力机型，表 2 适用于涡轮动力机型。

△ 自安装使用起 5 个日历年，或开封 8 年，先到为准；

△△ 所有 Lamiflex 轴承系列号 5997 及之前的，自生产日起 5 个日历年；

自安装使用起 5 个日历年*或自制造日起 8 个日历年，先到为准，所有 Lamiflex 轴承系列号 5998 及之后的；

*注： 安装日期定义为 Lamiflex 轴承开封日。

+ 无时间限制，依据维护手册检查规范视情拆下部件；

++ 仅对右旋安装 (28-16300)；左旋安装视情；

○ 依据适航指令 79-10-06R1 进行日常检查；

** 当使用油脂安装时视情；

* 自安装后 24 个月或 1200 小时，先到为准；

◆ 自制造厂标签标记的测试日期起 15 年；

- ∞ 航空器上安装有粘弹减摆器 P/N-23717-2 时, 小时数减至 3969 小时;
- ± 包含在组件 P/N 4112034-3 中的零部件;
- ◆◆ 分别包含在组件 P/N 4166024-1、-3 (-15)及 P/N 4166024-103 (-23)中的零部件;
- N/A 未批准安装。

表 1. 寿命限制 - 小时

部件号	旧的部件号	型号 部件 重量 磅	F-28F		280FX
			2350	2600	2600
ECD018-11	202SZZ	Bearing, Belt Idler Pulley	600	600	600
ECD014-11, -13	Z99606X3B 6308-2RS	Bearing, Upper Jack Strut	+	+	+
28-13401-1	CL40526-1 thru -7 (Formsprag)	Clutch	N/A	N/A	N/A
RJ0328		Turbo Charger Model 301E10-2	N/A	N/A	N/A
RJ0332		Turbo Charger Model 325E10-2	2000	2000	2000
103574-00		Turbo Charger Model 3BT2EE10J2	2000	2000	2000
600700-00	103574-00	Turbo Charger Model 3BT5EE10J2	2000	2000	2000
ECD009-11, -13	5201SBKZZ	Bearing, Lower Swashplate	1200**	1200**	+
ECD013-11, 13	Z993L13X3B 6013-RS	Bearing, Upper Swashplate	1200**	1200**	+
28-16119-1, -3		Universal Housing, Lower Swashplate	17,700	17,700	17,700
28-15120-1		Tail Rotor Blade, 3.3 in. cord	N/A	N/A	N/A
28-150002-1		Tail Rotor Blade, 4.4 in. cord	3100	3100	3100
28-15202-13		Tail Rotor Spindle (3.3 in. cord T/R Assy)	N/A	N/A	N/A
28-150064-11, -13		Tail Rotor Spindle (4.4 in. cord T/R Assy)	1200	1200	1200
28-150074-11, -13		Tail Rotor Spindle (4.4 in. cord T/R Assy)	1200	1200	1200
28-150044-1,-3		Tail Rotor Blade Grip	6200	6200	6200
28-150013-1		Tail Rotor Blade Grip	N/A	N/A	N/A

28-13609-1		Coupling, Tail Rotor Driveshaft	1200	1200	N/A
28-01041-3	A005-1992 (Dana)	Coupling, Flex Pack Assembly	1200	1200	1200
ECD074-1, -2	XR-137-2YL, -2R	Tail Rotor Gear set	1200	1200	1200
ECD100 (All dash numbers)		Tail Rotor Gear set	1200	1200	1200
ECD101 - 1, -2		Tail Rotor Gear set	1200	1200	1200
28-14283-1		Drag Link	+	13,750	13,750
28-14282-11		Main Rotor Spindle	N/A	N/A	N/A
28-14320-12, -15		Thrust Bearing (Lamiflex)	△△	△△	△△
NAS1611-333		Tachometer Drive Belt (O-Ring)	△	△	△

表 2. 寿命限制 - 小时

	型号	TH-28	480	480B
部件号	部件 重量 磅	2850	2850	3000
ECD084-1	Tension-Torsion Strap	1,200*	1,200*	1,200*
ECD100 (所有小号)	Tail Rotor Gear Set	1,000	1,200	1,000
ECD101 -1, -2	Tail Rotor Gear Set	1,000	1,200	1,000
ECD4000 (所有小号)	Drive Belt	5,500	5,500	5,500
ECD4056 (所有小号)	Bearing Lower Pulley Assembly	1,200	1,200	1,200
20368	Reservoir Cylinder (Pop Out Floats)	N/A	◆	◆□
28-13106-3	Ring Gear Carrier	2,500	2,500	2,500
28-13108 (所有小号)	Main Rotor Ring Gear and Pinion Set	3,700	3,700	2,300
28-14207-9	Pitch Change Bellcrank Assembly	3,130	3,130	N/A
28-14280-1	Main Rotor Hub Plate (Upper)	5,000	5,000	N/A

28-14280-3	Main Rotor Hub Plate (Upper)	+	+	N/A
28-14280-5	Main Rotor Hub Plate (Upper)	+	+, ∞	4,592 ∞
28-14281-1	Main Rotor Hub Plate (Lower)	5,000	5,000	N/A
28-14281-3	Main Rotor Hub Plate (Lower)	+	+	N/A
28-14281-5	Main Rotor Hub Plate (Lower)	+	+, ∞	4,592 ∞
28-14320-15	Thrust Bearing (Lamiflex)	△△	△△	N/A
28-150074-11, -13	Tail Rotor Spindle	1,200	1,200	1,200
4110006-17, -18	Pylon/Keel Attachment Plate	10,000	10,000	N/A
4112034-11 ±	Vibration Absorber Beam (Tailcone)	3,835	3,835	3,835
4130002-11	Ring Gear Carrier	1,200	1,200	N/A
4130045 (所有小号)	Main Rotor Ring Gear and Pinion Set	3,700	3,700	2,300
4131003 (所有小号)	Splined Driveshaft, Overrunning Clutch	3,500	3,500	3,500
4166024-15, -23 ♦♦	Vibration Absorber Beam (Cyclic Control System)	1,200	1,200	1,200

表 3. 强制检查项目

部件号	部件	型号		
		TH-28	480	480B
4130060(所有小号)	Main Rotor Transmission	不适用	不适用	600 小时*
* 数据分析期间通过部件拆卸检查确定的临时限制。部件必须返回 Enstrom 直升机公司进行拆卸检查或按照服务信函 (SIL) T-064 进行现场检查				

NOTE 3 Retirement items and mandatory inspection items are contained in the pertinent model Maintenance Manual. The retirement times of critical parts are listed in Table 1 and Table 2, and the mandatory inspection items are listed in Table 3 of this Type Certificate data sheet. The values of retirement times of service life cannot be increased without FAA Engineering Approval.

Enstrom Models F-28F helicopters are eligible for operation at a gross weight up to 2600 lbs. in both the Normal and Restricted categories when configured in accordance with the following:

Category

Usage - Configuration Requirement

Restricted	Agricultural Spraying - configured per NOTE 6.
Restricted	Floats - configured per NOTE 7.
Restricted	External Cargo - configured per NOTE 8
Normal	Configured per NOTE 16

Once the helicopter is operated at a gross weight in excess of 2350 lbs. up to the maximum authorized 2600 lbs., the service life requirements for 2600 lbs. must be used.

The following special notations augment the Service Life Tables specifying limitations and/or special conditions associated with authorized gross weights and service lives. Table 1 applies to all piston powered models. Table 2 applies to all turbine powered models.

△ Retire from service 5 calendar years from date of installation or package opening, or 8 years from date of manufacture, whichever occurs first.

△△ Retire from service 5 calendar years from date of manufacture all Lamiflex bearings serial number 5997 and prior.

Retire from service 5 calendar years from date of installation* or 8 calendar years from date of manufacture, whichever occurs first, all Lamiflex bearings serial numbers 5998 and subsequent.

*Note: Date of installation is defined as the date the Lamiflex bearing packaging is opened.

+ No Time limit. Remove Component on condition per Maintenance Manual inspection criteria.

++ Right hand installations only (28-16300); left hand installations are on condition.

○ Inspect daily per Airworthiness Directive 79-10-06R1.

** On Condition when used with grease fitting.

-
- | | |
|-----|--|
| * | Retire from service 24 months after date of installation or 1200 hours, whichever occurs first. |
| | |
| ◆ | Retire from service 15 years from the original test date marked on the manufacture' s label. |
| | |
| ∞ | Hours reduced to 3,969 hrs. on aircraft that were equipped with elastomeric damper, P/N-23717-2. |
| | |
| ± | Detail part contained in assembly P/N 4112034-3. |
| | |
| ◆◆ | Detail part contained in assembly P/N 4166024-1 and -3 (-15) and P/N 4166024-103 (-23), respectively |
| | |
| N/A | Not approved for installation. |

Table 1. Service Life Limits - Hours

Part Number	Old Part Number	Model Component Wt. lbs.	F-28F		280FX
			2350	2600	2600
ECD018-11	202SZZ	Bearing, Belt Idler Pulley	600	600	600
ECD014-11, -13	Z99606X3B 6308-2RS	Bearing, Upper Jack Strut	+	+	+
28-13401-1	CL40526-1 thru -7 (Formsprag)	Clutch	N/A	N/A	N/A
RJ0328		Turbo Charger Model 301E10-2	N/A	N/A	N/A
RJ0332		Turbo Charger Model 325E10-2	2000	2000	2000
103574-00		Turbo Charger Model 3BT2EE10J2	2000	2000	2000
600700-00	103574-00	Turbo Charger Model 3BT5EE10J2	2000	2000	2000
ECD009-11, -13	5201SBKZZ	Bearing, Lower Swashplate	1200**	1200**	+
ECD013-11, -13	Z993L13X3B 6013-RS	Bearing Upper Swashplate	1200**	1200**	+
28-16119-1, -3		Universal Housing, Lower Swashplate	17,700	17,700	17,700
28-15120-1		Tail Rotor Blade, 3.3 in. cord	N/A	N/A	N/A
28-150002-1		Tail Rotor Blade, 4.4 in. cord	3100	3100	3100
28-15202-13		Tail Rotor Spindle (3.3 in. cord T/R Assy)	N/A	N/A	N/A
28-150064-11, -13		Tail Rotor Spindle (4.4 in. cord T/R Assy)	1200	1200	1200
28-150074-11, -13		Tail Rotor Spindle (4.4 in. cord T/R Assy)	1200	1200	1200
28-150044-1,-3		Tail Rotor Blade Grip	6200	6200	6200
28-150013-1		Tail Rotor Blade Grip	N/A	N/A	N/A

28-13609-1		Coupling, Tail Rotor Driveshaft	1200	1200	N/A
28-01041-3	A005-1992 (Dana)	Coupling, Flex Pack Assembly	1200	1200	1200
ECD074-1, -2	XR-137-2YL, -2R	Tail Rotor Gear set	1200	1200	1200
ECD100 (All dash numbers)		Tail Rotor Gear set	1200	1200	1200
ECD101 - 1, -2		Tail Rotor Gear set	1200	1200	1200
28-14283-1		Drag Link	+	13,750	13,750
28-14282-11		Main Rotor Spindle	N/A	N/A	N/A
28-14320-12, -15		Thrust Bearing (Lamiflex)	△△	△△	△△
NAS1611-333		Tachometer Drive Belt (O-Ring)	△	△	△

Table 2. Service Life Limits - Hours

	Model	TH-28	480	480B
Part Number	Component Wt. lbs.	2850	2850	3000
ECD084-1	Tension-Torsion Strap	1,200*	1,200*	1,200*
ECD100 (All dash numbers)	Tail Rotor Gear Set	1,000	1,200	1,000
ECD101 -1, -2	Tail Rotor Gear Set	1,000	1,200	1,000
ECD4000 (All dash numbers)	Drive Belt	5,500	5,500	5,500
ECD4056 (All dash numbers)	Bearing Lower Pulley Assembly	1,200	1,200	1,200
20368	Reservoir Cylinder (Pop Out Floats)	N/A	◆	◆
28-13106-3	Ring Gear Carrier	2,500	2,500	2,500
28-13108 (All dash numbers)	Main Rotor Ring Gear and Pinion Set	3,700	3,700	2,300
28-14207-9	Pitch Change Bellcrank Assembly	3,130	3,130	N/A

28-14280-1	Main Rotor Hub Plate (Upper)	5,000	5,000	N/A
28-14280-3	Main Rotor Hub Plate (Upper)	+	+	N/A
28-14280-5	Main Rotor Hub Plate (Upper)	+	+, ∞	4,592 ∞
28-14281-1	Main Rotor Hub Plate (Lower)	5,000	5,000	N/A
28-14281-3	Main Rotor Hub Plate (Lower)	+	+	N/A
28-14281-5	Main Rotor Hub Plate (Lower)	+	+, ∞	4,592 ∞
28-14320-15	Thrust Bearing (Lamiflex)	$\triangle\triangle$	$\triangle\triangle$	N/A
28-150074-11, -13	Tail Rotor Spindle	1,200	1,200	1,200
4110006-17, -18	Pylon/Keel Attachment Plate	10,000	10,000	N/A
4112034-11 $\pm$	Vibration Absorber Beam (Tailcone)	3,835	3,835	3,835
4130002-11	Ring Gear Carrier	1,200	1,200	N/A
4130045 (All dash numbers)	Main Rotor Ring Gear and Pinion Set	3,700	3,700	2,300
4131003 (All dash numbers)	Splined Driveshaft, Overrunning Clutch	3,500	3,500	3,500
4166024-15, -23 $\blacklozenge\blacklozenge$	Vibration Absorber Beam (Cyclic Control System)	1,200	1,200	1,200

Table 3. Mandatory Inspection Items

Part Number	Component	Model		
		TH-28	480	480B
4130060 (All dash numbers)	Main Rotor Transmission	Not Applicable	Not Applicable	600 Hrs*
* Temporary restriction pending data analysis from the component tear-down inspections. Components must be returned to Enstrom Helicopter Corporation for the tear-down inspection or field-inspected in accordance with Service Information Letter (SIL) T-064.				

注释 4 保留

NOTE 4 Reserved

注释 5 保留

NOTE 5 Reserved

注释 6 Enstrom 型号 F-28F 和 280FX 直升机取证时, 是按照多个总重至 2600 磅的运行条件完成型号合格证审定的。装有根据 Enstrom 图纸 28-22620 规定的农用组件, 并按照 Enstrom 直升机公司报告 No. DO-280 安装, 所有人 & 运行人手册按干/湿农用组件 83100 时, 按限制类运行。在拆除农用组件, 直升机可恢复为正常类运行。这些转换完成时, 飞行履历本应做记录。

下列 CAR 6 部分条款不适用于预期的农用运行:

CAR 6.100(c), 6.113(b)(c), 6.114, 6.116 以及 6.123(b)(3)。

下列 CAR 6 条款, 已经在近海平面和 7500 英尺密度高度条件演示:

CAR 6.121(d)和 6.123(b)(4)

NOTE 6 Enstrom Model F-28F and 280FX helicopters are certified for multiple certificate operation at a gross weight up to 2600 lbs. for restricted category operation when equipped with Agricultural Kit as specified on Enstrom drawing 28-22620 and installed in accordance with Enstrom Helicopter Corporation Report No. DO-280, Owner & Operator Manual for Wet/Dry Ag Kit 83100. The helicopter may be returned to normal category operation upon the removal of the agricultural kit. A logbook entry shall be made when these conversions are accomplished.

The following portions of Part 6 of the Civil Air Regulations were considered inappropriate for the intended agricultural operations:

CAR 6.100(c), 6.113(b) (c), 6.114, 6.116, and 6.123(b) (3).

The following paragraphs of CAR 6 were demonstrated at near sea level and 7,500 feet density altitude conditions only:

CAR 6.121(d) and 6.123(b) (4).

注释 7 型号 F-28F 和 280FX 直升机, 可根据 Enstrom 图纸 28-17326 选装件号为 (P/N) D-24780 的 Air Cruiser 可充气式浮筒。当选装可充气式浮筒, 在正常和限制类 F-28F 型号可以至各自 2350 和 2600 磅总重运行 (参见注释 3), F-28F 型号构型按注释 16, 在正常类 280FX 型号总重可知 2600 磅运行。每个直升机这样装备是为批准两栖运行在飞行手册增补 No.2 规定的限制内。当型号 F-28F 直升机运行类型改变时, 飞机履历本应作记录。

不适用于总重在 2350 和 2600 磅之间限制类运行的 CAR 6 条款, 参见注释 6. 直升机必须在相应的飞行手册增补规定的限制类运行限制内运行。

型号 F-28F 直升机允许互换浮筒。可按照 Enstrom 图纸 28-17301 安装直升机件号(P/N)为 23D24409 的 Air Cruiser 可充气式浮筒。当选装可充气式浮筒时, 直升机必须按照飞行手册增补 No.8 正常类限制运行。装有件号为 P/N 23D24409 的直升机, 两栖运行总重限制是 2150 磅, 并用标牌指示。不在两栖运行的条款, 仍允许在总重超过 2150 磅紧急水上着陆。

NOTE 7 Model F-28F and 280FX helicopters are eligible for the installation of inflatable floats, P/N D-24780 in accordance with Enstrom drawing 28-17326. When so equipped, F-28F Models may be operated up to 2350 and 2600 lbs. GW in the normal and restricted categories, respectively (see NOTE 3). F-28F Models configured per NOTE 16, and 280FX Models may be operated up to 2600 lbs. GW in the normal category. Each helicopter so equipped is approved for amphibious operations within the limitations prescribed by Flight Manual Supplement No. 2 for that model. A logbook entry shall be made when changing category of operation for Model F-28F helicopters.

See NOTE 6 for portions of Part 6 of the Civil Air Regulations considered inappropriate for restricted category operations at gross weights between 2350 and 2600 lbs. The helicopter must be operated within the restricted category limitations prescribed in the appropriate Flight Manual Supplement.

Model F-28F helicopters are approved for inflatable floats. These model helicopters are eligible for the installation of inflatable floats, P/N 23D24409, in accordance with Enstrom drawing 28-17301. When so equipped, the helicopter must be operated within the normal category limitations prescribe in Flight Manual Supplement No. 8. Helicopters equipped with float, P/N 23D24409, are limited to 2150 lbs. GW for amphibious operations and must be placarded to so indicate. This provision excludes amphibious operations, yet allows emergency water landings at gross weights over 2150 lbs.

注释 8 型号为 F-28F 和 280FX 直升机可以按 Enstrom 图纸 28-22000 选装货物吊钩来运输外部货物。直升机必须在适用飞行手册增补规定的限制内运行。最大允许的外部载荷为 1000 磅。Enstrom 型号 F-28F 和 280FX 直升机已获得总重至 2600 磅限制类货物吊钩运行的合格审定。当改变运行类别时, 应当在飞机履历本做记录。

不适用总重在 2350 和 2600 磅之间限制类运行的 CAR 6 条款, 参见注释 6

NOTE 8 Model F-28F and 280FX helicopters are eligible for installation of a cargo hook in accordance with Enstrom drawing 28-22000 for the transportation of external cargo. The helicopter must be operated within the limitations prescribed in the appropriate Flight Manual Supplement. The maximum external load permitted on the cargo hook is 1,000 lbs. F-28F and 280FX helicopters are certificated for multiple certificate operation at a gross weight up to 2,600 lbs. for restricted category

cargo hook operation. A logbook entry shall be made when changing category of operation.

See NOTE 6 for portions of Part 6 of the Civil Air Regulations considered inappropriate for restricted category operations at gross weights between 2,350 and 2,600 lbs.

- 注释 9 型号为 F-28F 和 280FX 直升机可选装雪鞋组件 No.28-22400 时，运行时应在飞行手册增补规定的限制内。
- NOTE 9 Model F-28F and 280FX helicopters are eligible for the installation of Snowshoe Kit No. 28-22400 when operated within the prescribed limitations of the Flight Manual Supplement.
- 注释 10 保留
- NOTE 10 Reserved
- 注释 11 保留
- NOTE 11 Reserved
- 注释 12 保留
- NOTE 12 Reserved
- 注释 13 保留
- NOTE 13 Reserved
- 注释 14 型号 F-28F 直升机可选装“右侧主驾驶”组件（组件号 No.28-01002-3）。这些构型的直升机，在序列号后加上标示波折号 R 的后缀明确。这些构型的直升机的型号，将由一个波折号 R 明确（F-28F-R）。而且必须在飞行手册增补规定的限制内运行。此 F-28F-R 必须在 Enstrom F-28F 操作手册和 FAA 批准的旋翼航空器飞行手册和各自的飞行手册增补以及 Enstrom F-28F 系列维护手册的限制内运行，特别注明的除外。
- NOTE 14 Model F-28F helicopters are eligible for installation of a "Right Hand Pilot in Command" Kit (Kit No. 28-01002-3). These helicopters, when so configured, will be identified with a serial number dash R suffix. Eligible helicopters, when so equipped, will have a dash R model designation (F-28F-R) and must be operated within the prescribed limitation of their respective Flight Manual Supplement. Model F-28F-R shall be operated within the prescribed limitations of the Enstrom F-28F Operator's Manual and FAA Approved Rotorcraft Flight Manual and respective Flight Manual Supplement, as well as the Enstrom F-28F and 280F Series Maintenance Manual, except as noted otherwise.
- 注释 15 删除
- NOTE 15 Delete
- 注释 16 Enstrom 型号 F-28F 直升机，如果直升机在原始制造或后续更新并有相应记录时满足 Enstrom 详细图纸 No.28-100015 需求，可以在正常类增加总重至 2600 磅。按照 Enstrom 服务信函（Service Information Letter）0130，适用的更新型号如下：

F-28F 所有 S/N 731 之前的直升机。

NOTE 16 Enstrom Model F-28F helicopters are eligible for increased gross weight to 2600 pounds in the normal category if the helicopter complies with the requirements of Enstrom Specification Drawing No. 8-100015 at the time of original manufacture or are retrofitted at a later date and logged accordingly. In accordance with Enstrom Service Information Letter 0130, Models eligible for retrofitting are:

All F-28F helicopters prior to S/N 731.

注释 17 Enstrom 型号 F-28F 和 280FX 可选装内部辅助燃油箱组件 No.28-01009。当选装该组件时，直升机必须按飞机手册增补规定的限制范围内运行。

Enstrom Models F-28F and 280FX are eligible for installation of an internal auxiliary fuel tank per Kit No. 28-01009. When so equipped, the helicopter must be operated within the prescribed limitations of the respective Flight Manual Supplement.

注释 18 Enstrom F-28F 和 280FX 可在标准排气管上选装 P/N ENX-0001 或 P/N 28-12577-1 的 Wall-Colomony 消声器。当如此安装时，直升机必须在各自飞行手册增补中规定的限制内运行。对旋翼航空器无另外改装要求。

NOTE 18 Enstrom Models F-28F and 280FX are eligible for installation of Wall-Colomony Muffler P/N ENX-0001 or P/N 28-12577-1 in place of the standard tailpipe. When so equipped, the helicopter must be operated within the prescribed limitations of the respective Flight Manual Supplement. No further modification to the rotorcraft is required.

注释 19 序列号为 S/N 5001 Enstrom 型号 480 直升机按 4 座座椅布置，1993 年 6 月 7 日取证。当按 Enstrom 图纸 4119775 “后台座椅安装”和 4192034 “蓄电池安装”更新时，可选装 5 座座椅布置。

NOTE 19 Enstrom Model 480, S/N 5001 was certificated June 7, 1993, with 4-place seating. It is eligible for 5-place seating when retrofitted in conformance with Enstrom drawing 4119775 "Aft Bench Seat Installation," and 4192034 "Battery Installation."

注释 20 Enstrom 480, 480B 可选装货物吊钩组件 No.4220024。当这样该装备时，480 及 480B 必须在飞行手册增补 No.1 规定的限制内运行。（TH-28 和 480 批准时，未包含本部分，故省略了未认可机型内容部分）

NOTE 20 Enstrom Models 480, 480B are eligible for installation of Cargo Hook Kit No. 4220024. When so equipped, the 480 and 480B must be operated within the prescribed limitations of Flight Manual Supplement No.1.

注释 21 选装雪橇套件 No.4220016 的 Enstrom 480 和 480B，须在飞行手册增补 No.2 规定限制内运行。

NOTE 21 Enstrom Models 480 and 480B are eligible for installation of Snowshoe Kit No. 4220016 when operated within the prescribed limitations of Flight Manual Supplement No. 2.

注释 22 选装外部燃油滤套件 No.4220035 的 Enstrom 480 和 480B，须在飞行手册增补 No.3 规定限制内运行。

NOTE 22 Enstrom Models 480 and 480B are eligible for installation of External Fuel Filter Kit No. 4220035 when operated within the prescribed limitations of Flight Manual Supplement No. 3.

- 注释 23 选装行李箱扩展套件 No.4220029 的 Enstrom480 和 480B, 须在飞行手册增补 No.4 规定限制内运行。
- NOTE 23 Enstrom Models 480 and 480B are eligible for installation of Baggage Box Extension Kit No. 4220029 when operated within the prescribed limitations of Flight Manual Supplement No. 4.
- 注释 24 选装相机门套件 No.4220079 的 Enstrom480 和 480B, 须在飞行手册增补 No.5 规定限制内运行。
- NOTE 24 Enstrom Models 480 and 480B are eligible for installation of Camera Door Kit No. 4220079 when operated within the prescribed limitations of Flight Manual Supplement No. 5.
- 注释 25 选装旋翼转速提升包套件 No. 4230002 的 Enstrom480, 须在飞行手册增补 No.7 规定限制内运行, 且需要安装滑油冷却系统 P/N 4129100-3 并在主旋翼传动处安装齿圈架 P/N 28-13106-6。
- NOTE 25 Enstrom Model 480 is eligible for installation of Increased Rotor Speed Kit No. 4230002 when operated within the prescribed limitations of Flight Manual Supplement No.6. This kit also requires oil cooling system installation, P/N 4129100-3, and installation of the ring gear carrier, P/N 28-13106-6, in the main rotor transmission
- 注释 26 选装空调系统套件 No.4220176 的 Enstrom480 和 480B, 须在飞行手册增补 No.7 规定限制内运行, 且根据 EnstromTH-28/480 维护手册增补 No.1 进行维护。
- NOTE 26 Enstrom Models 480 and 480B are eligible for installation of Air Conditioning System Kit No. 4220176 when operated within the prescribed limitations of Flight Manual Supplement No. 7; and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 1.
- 注释 27 选装弹出式浮筒套件 No.4220091 的 Enstrom480 和 480B, 须在飞行手册增补 No.6 规定相应限制运行内, 且根据 EnstromTH-28/480 维护手册增补 No.2 进行维护。
- NOTE 27 Enstrom Models 480 and 480B are eligible for installation of Pop-Out Floats Kit No. 4220091 when operated within the prescribed limitations of Flight Manual Supplements No. 8 and No. 6, respectively; and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 2.
- 注释 28 当选装 Enstrom480B 转换套件 No.4230026, 序列号为 5039 至 5042 和 5044 的 Enstrom480 可以转换为 480B
- NOTE 28 Enstrom Model 480, Serial Number 5039 thru 5042 and 5044 are eligible for conversion to Model 480B when equipped in accordance with Enstrom 480B Conversion Kit No. 4230026.
- 注释 29 序列号列在表 4 的直升机不适用任何审定类别

表 4. 不适用的序列号表

型号	序列号
F-28F	700, 708, 710, 712, 744, 769, 817
280FX	2002, 2016, 2041, 2060, 2070, 2080, 2086, 2087, 2101, 2118

TH-28	3003, 3005, 3006
480	5005, 5021, 5023, 5028, 5035
480B	5093, 5102, 5122, 5191, 5199, 5205

NOTE 29 Helicopter serial numbers listed in Table 4 are ineligible for certification in any category.

Table 4. Ineligible Serial Numbers

Model	Serial Numbers
F-28F	700, 708, 710, 712, 744, 769, 817
280FX	2002, 2016, 2041, 2060, 2070, 2080, 2086, 2087, 2101, 2118
TH-28	3003, 3005, 3006
480	5005, 5021, 5023, 5028, 5035
480B	5093, 5102, 5122, 5191, 5199, 5205

注释 30 选装鼻定位摄像机安装套件 No.4220180-5 的 Enstrom480B, 须在飞机手册增补 No.8 规定限制内运行。

NOTE 30 Enstrom Model 480B is eligible for installation of Nose Positioned Camera Mount Kit No. 4220180-5 when operated within the prescribed limitations of Flight Manual Supplement No. 8.

注释 31 选装搜索灯套件 No.4220056-1 或-3 的 Enstrom480B, 须在飞行手册增补 No.9 规定限制内运行。

NOTE 31 Enstrom Model 480B is eligible for installation of Searchlight Kit No. 4220056-1 or -3 when operated within the prescribed limitations of Flight Manual Supplement No. 9.

注释 32 选装 Gyrocam 套件 No.4220552 的 Enstrom480B, 须在飞行手册增补 No.28-AC-025 规定在限制内运行。且根据 EnstromTH-28/480 维护手册增补 No.3 进行维护。

NOTE 32 Enstrom Model 480B is eligible for installation of Gyrocam, No. 4220552 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-025 Revision -, dated February 11, 2008, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 3.

注释 33 选装 EFis No.4220500 的 Enstrom480B, 须在飞行手册 No.10 规定限制内运行, 且根据 EnstromTH-28/480 维护手册增补 No.4 进行维护。

NOTE 33 Enstrom Model 480B is eligible for installation of Chelton Flight Systems EFis, No. 4220500 when operated within the prescribed limitations of Flight Manual Supplement No. 10, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 4.

- 注释 34 选装 2+2 座椅构型 (No.4230042) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-036 规定限制内运行, 且根据 EnstromTH-28/480 维护手册增补 No.10 或最新版进行维护。
- NOTE 34 Enstrom Model 480B is eligible for installation of 2+2 Seating Configuration, No. 4230042 (approved November 4, 2009) when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-036, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 10.
- 注释 35 选装 Garmin SL30 导航/通讯收发机 (No.28-22069) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-028 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 或最新版进行维护。
- NOTE35 Enstrom Models F-28F and 280FX are eligible for installation of NAV/COM Transceiver, No. 28-22069 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-028, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 36 选装 Sandia 高度数据系统 (No.28-22090) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-029 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 或最新版进行维护。
- NOTE 36 Enstrom Models F-28F and 280FX are eligible for installation of Altitude Data System, No. 28-22090 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-029, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 37 选装 Garmin GNS430W/530W 导航系统 (No.28-22037 (430W) /28-22050 (530W)) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-03 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 或最新版进行维护。
- NOTE 37 Enstrom Models F-28F and 280FX are eligible for installation of Navigation System, No.28-22037/28-22050 when operated within the prescribed limitations of Flight Manual Supplement No.28-AC-031, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 38 选装 XM WX 卫星气象/无线电接收机 (No.28-22082) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-032 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 或最新版进行维护。
- NOTE 38 Enstrom Models F-28F and 280FX are eligible for installation of XM WX Satellite Weather/Radio Receiver, No. 28-22082 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-032, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 39 选装 Traffic Advisory System (No.4220569) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-027 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 39 Enstrom Model 480B is eligible for installation of Traffic Advisory System, No. 4220569 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-027, and maintained in accordance with Enstrom H-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 40 选装 NAV/COM 收发机 (No.4220558) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-030 规定限制范围内运

行，且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。

NOTE 40 Enstrom Model 480B is eligible for installation of NAV/COM Transceiver, No. 4220558 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-030, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.

注释 41 选装高度数据系统 (No.4220561) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-035 规定限制内运行, 且根据 EnstromTH-28/480 系类维护手册 No.5 最新版进行维护

NOTE 41 Enstrom Model 480B is eligible for installation of Altitude Data System, No. 4220561 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-035, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.

注释 42 选装 TACAN 系统 (No.4220615) 的 Enstrom480B, 须在 2011 年 11 月 10 日的飞行手册增补 No.28-AC-038 版本 1 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 JGSDF 特定配置航空电子最新版进行维护。

NOTE 42 Enstrom Model 480B is eligible for installation of TACAN System, No. 4220615 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-038 Revision 1, dated November 10, 2011, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement JGSDF Specific Configuration Avionics, latest revision.

注释 43 选装 VHF 通信电台 (No.4220611), UHF 通信电台 (No.4220612) 及音响系统 (No.4220613) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-040 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 JGSDF 特定配置航空电子最新版进行维护。

NOTE 43 Enstrom Model 480B is eligible for installation of VHF Communication Radio, No. 4220611; UHF Communication Radio, No. 4220612; and Audio System, No. 4220613 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-040, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement JGSDF Specific Configuration Avionics, latest revision.

注释 44 选装电力线检测系统 (No.4220576) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-042 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。

NOTE 44 Enstrom Models 480 and 480B are eligible for installation of Powerline Detection System, No. 4220576 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-042, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.

注释 45 选装 Partial Wide Instrument Panel (No.4220602) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-043 规定限制运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.6 最新版进行维护。

NOTE 45 Enstrom Model 480B is eligible for installation of the Partial Wide Instrument Panel, No. 4220602 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-043, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 6, latest revision.

- 注释 46 选装双通道音频控制器和混音放大器 (No.4220529) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-048 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 46 Enstrom Model 480B is eligible for installation of Dual Channel Audio Controller and Audio Mixing Amplifier, No. 4220529 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-048, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 47 选装 EHSI (No.4220609) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-049 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 JGSDF 特定配置航空电子最新版或 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 47 Enstrom Model 480B is eligible for installation of the EHSI, No. 4220609 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-049, and maintained in accordance with Enstrom TH-28/480 Series maintenance Manual Supplement JGSDF Specific Configuration Avionics, latest revision or with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 48 选装 NAV/COM 系统 (No.28-22063) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-056 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 最新版进行维护。
- NOTE 48 Enstrom Models F-28F and 280FX are eligible for installation of NAV/COM System, No. 28-22063 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-056, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 49 生产合格证 No.319CE 即之前的 No.319。适用型号的有效性和符合性要求参考服务信函(SIL)0181 和 SIL T-059
- NOTE 49 Production Certificate No. 319CE was previously No. 319. Refer to Service Information Letter (SIL) 0181 and SIL T-059 for applicable model effectivity and compliance requirements.
- 注释 50 选装音频面板 (No.4220672) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-051 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 50 Enstrom Model 480B is eligible for installation of the Audio Panel, No. 4220672 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-051, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 51 选装脉冲着陆灯 (No.4199005-111) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-059 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册最新版进行维护。
- NOTE 51 Enstrom Model 480 and 480B are eligible for installation of the Pulse Landing Light, No. 4199005-111 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-059, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual, latest revision.
- 注释 52 选装集成飞行甲板 (No.4220650) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-060 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.8 最新版进行维护。

- NOTE 52 Enstrom Model 480B is eligible for installation of the Integrated Flight Deck, No. 4220650 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-060, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 8, latest revision.
- 注释 53 选装 800 交通咨询系统 (No.4220656) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-061 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.8 最新版进行维护。
- NOTE 53 Enstrom Model 480B is eligible for installation of the 800 Traffic Advisory System, No. 4220656 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-061, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 8, latest revision.
- 注释 54 选装 XM WX 卫星气象/无线电接收机 (No.4220660) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-062 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.8 最新版进行维护。
- NOTE 54 Enstrom Model 480B is eligible for installation of the XM WX Satellite Weather/ Radio Receiver, No.4220660 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-062, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 8, latest revision.
- 注释 55 选装 NAV/COM 收发机 (No.4220638) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-063 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 55 Enstrom Model 480B is eligible for installation of the NAV/COM Transceiver, No. 4220638 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-063, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 56 选装导航系统 (No.4220639) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-064 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 56 Enstrom Model 480B is eligible for installation of the Navigation System, No. 4220639 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-064, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 57 选装 A/C 模式收发机 (No.4220512) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-065 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 57 Enstrom Model 480B is eligible for installation of the Mode A/C Transponder, No. 4220512 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-065, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 58 选装 GPS/NAV/COM (No.4220639, NAV 不可用) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-068 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护。
- NOTE58 Enstrom Model 480B is eligible for installation of the GPS/NAV/COM (NAV Disabled), No. 4220639 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-068, and maintained in accordance with

Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.

- 注释 59 选装带有 MD200-306 CDI 的导航系统 (No.28-22112) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-069 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 最新版进行维护。
- NOTE59 Enstrom Models F-28F and 280FX are eligible for installation of the Navigation System with MD200-306 CDI, No. 28-22112 when operated within the prescribed limitations of the Flight Manual Supplement No.28-AC-069, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 60 选装带有 ADS-B Out 的收发机 (No.28-22028) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No.28-AC-070 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 最新版进行维护。
- NOTE60 Enstrom Models F-28F and 280FX are eligible for installation of the Transponder with ADS-B Out, No.28-22028 when operated within the prescribed limitations of the Flight Manual Supplement No. 28-AC-070, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 61 选装带无线电高度表 (No.4220517) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-071 规定限制内运行, 且根据 EnstromTH-28/480 系列维护手册增补 No.5 最新版进行维护
- NOTE 61 Enstrom Model 480B is eligible for installation of the Radar Altimeter, No. 4220517 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-071, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 62 选装带有外部吊挂接口组件 (No. 4220130) 的 Enstrom480B, 须在飞行手册增补 No.28-AC-024 规定限制内运行, 且根据 Enstrom480 系列维护手册增补 No.7 最新版进行维护。
- NOTE 62 Enstrom Model 480B is eligible for installation of the External Load Interface Kit, No. 4220130 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-024, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 7, latest revision.
- 注释 63 选装带有导航系统 (No. 4220534/4220535) 的 Enstrom480 和 480B, 须在飞行手册增补 No.28-AC-055 规定限制内运行, 且根据 Enstrom480 系列维护手册增补 No.5 最新版进行维护。
- NOTE 63 Enstrom Models 480 and 480B are eligible for installation of the Navigation System, No. 4220534/4220535 when operated within the prescribed limitations of Flight Manual Supplement No. 28-AC-055, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 64 选装带有 Nav/Com 收发机 (No. 28-22063) 的 EnstromF-28F 和 280FX, 须在飞行手册增补 No. 28-AC-074 规定限制内运行, 且根据 EnstromF-28F/280F 系列维护手册增补 No.1 最新版本进行维护。
- NOTE 64 Enstrom Models F-28F and 280FX are eligible for installation of the Nav/Com Transceiver, No. 28-22063 when operated within the prescribed limitations of the Flight Manual Supplement No. 28-AC-074, and maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 65 选装带有航向偏离指示器 (No. 28-22095) 的 EnstromF-28F 和 280FX, 须根据 EnstromF-28F/280F 系列维护手

册增补 No.1 最新版本进行维护。

- NOTE 65 Enstrom Models F-28F and 280FX are eligible for installation of the Course Deviation Indicator, No. 28-22095 when maintained in accordance with Enstrom F-28F/280F Series Maintenance Manual Supplement No. 1, latest revision.
- 注释 66 选装带有 Vision 1000 (No. 4220641) 的 Enstrom 480B, 须在飞行手册增补 No. 28-AC-067 规定限制内运行, 且根据 Enstrom TH-28/480 系列维护手册增补 No.5 最新版本进行维护。
- NOTE 66 Enstrom Model 480B is eligible for installation of the Vision 1000, No. 4220641 when operated within the prescribed limitations of the Flight Manual Supplement No. 28-AC-067, and maintained in accordance with Enstrom TH-28/480 Series Maintenance Manual Supplement No. 5, latest revision.
- 注释 67 对于活塞型号, 中国 (CAAC) 要求的设备及选装 (F-28F/280FX) 包含在图纸 No.28-22238 最新版本中。对于涡轮型号, 中国 (CAAC) 要求的设备及选装 (480B) 包含在图纸 No.4222008 最新版本中。
- NOTE 67 For piston models, the China (CAAC) Required and Optional Equipment (F-28F/280FX) is included in Drawing No. 28-22238, latest revision. For turbine models, the China (CAAC) Required and Optional Equipment (480B) is included in Drawing No. 4222008, latest revision.

-完END-