

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION
TYPE CERTIFICATE DATA SHEET H5NE

TCDS NUMBER H5NE
REVISION 16
DATE: October 29, 2021
SIKORSKY AIRCRAFT
MODEL: S-70A, S-70M

This data sheet, which is part of Type Certificate Number H5NE, prescribes conditions and limitations under which the product for which the Type Certificate was issued meets the airworthiness requirements of the Federal Aviation Regulations.

Type Certificate Holder Sikorsky Aircraft Corporation
6900 Main Street
Stratford, CT 06615-9129

MODEL NUMBER: S-70A (Restricted Category) Approved: 10/22/88
(Derivative aircraft of U.S. Army Models UH-60A and UH-60L)

ENGINES: 2 General Electric T700-GE-701A (See Notes 5, 13 and 14 for optional engines.)

FUEL: JP-4, JP-5, JP-8, Jet A, Jet A1, or Jet B

ENGINE LIMITS:

| | SHAFT HP (S.L. STD) | POWER TURBINE RPM/% | GAS GEN RPM/% | TURBINE GAS TEMP.°C |
|---|------------------------|------------------------|------------------|------------------------|
| Contingency Rated Power (CRP) (2 1/2 min. OEI) | 1,723 | 20,900/100 | 44,700/102 | 917 |
| Maximum Rating (10 min. dual) | 1,715 | 20,900/100 | 44,700/102 | 882 |
| Intermediate Rated Power (IRP) (30 min. dual) | 1,694 | 20,900/100 | 44,700/102 | 867 |
| Maximum Continuous Power (MCP) | 1,510 | 20,900/100 | 44,700/102 | 804 |

TRANSMISSION LIMITS: TORQUE
120% Single Engine
106% Dual Engine
(no time limits)

ROTOR LIMITS: POWER OFF: Maximum 110%
Minimum 90%

POWER ON: Maximum 107%
Minimum 91%

AIRSPEED LIMITS: Vne Power on: 193 knots IAS, (221 MPH). See appropriate Rotorcraft Flight Manual (Operators Manual) for variation of Vne with gross weight, pressure altitude and temperature.

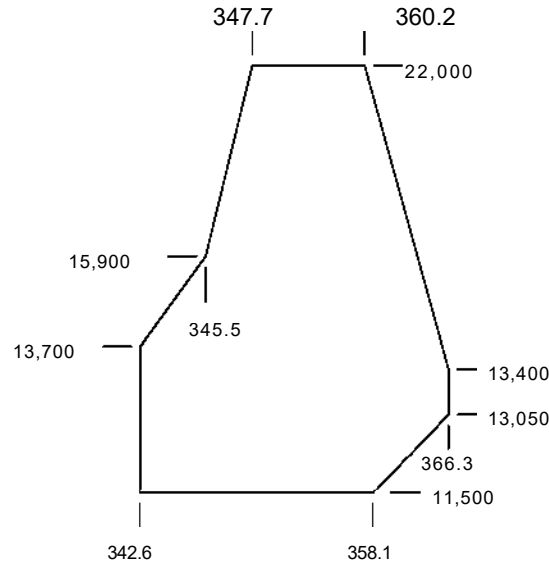
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C.G. RANGE

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INCHES AFT OF DATUM

| | |
|---|---|
| DATUM: | 341.2 inches forward of the main rotor centroid. |
| MAXIMUM WEIGHT: | 22,000 lbs. |
| MINIMUM CREW: | 2 (pilot, copilot) |
| NUMBER OF SEATS: (No Passengers Permitted) | a. 2 at Sta. 227.1; 2 at Sta. 264.6; 1 at Sta. 280.4; 2 at Sta. 282.5; 2 at Sta. 300.5; 1 at Sta. 301.4; 4 at Sta. 334.3; 4 at Sta. 355.3; 4 at Sta. 387.2. b. OPTIONAL SEATING: 2 at Sta. 227.1; 1 at Sta. 262.0; 3 at Sta. 282.0; 3 at Sta. 320.7; 4 at Sta. 339.8; 4 at Sta.387.2 |
| FUEL CAPACITY: | 361.5 gallons; 2 tanks (LH & RH interchangeable). An additional 460 gallons (2x230 gallons) or 920 gallons (4x230 gallons) with external fuel tanks installed. |
| OIL CAPACITY: | 7 quarts each engine. |
| OTHER OPERATING LIMITATIONS: | TM 55-1520-237-10T S-70A Operator's Manual dated October 20, 1988, as revised. For aircraft Serial Numbers 701825, 701835 and 702127, TM 55-1520-237-10HK Operator's Manual, dated October 29, 1992, as revised, is applicable. For aircraft Serial Numbers 701129 and 702029, TM55-1520-237-10B Operator's Manual, dated June 22, 1992, as revised, is applicable. For aircraft Serial Numbers 700029, 702129 and 702929, TM 1-70-29-10 Operator's Manual, dated October 6, 1997, as revised, is applicable. |
| SERIAL NUMBERS ELIGIBLE: | 700029, 701129, 701322, 701325, 701327, 701329, 701331, 701333, 701592, 701593, 701594, 701595, 701613, 701614, 701825, 701835, 702029, 702127, 702129, 702929. |

TYPE CERTIFICATION
BASIS:

FAR 21.25(a)(2), effective January 6, 1975, for the purpose of:

- (1) Agriculture, FAR 21.25(b)(1)
- (2) External Cargo, FAR 21.25(b)(7)
- (3) Forest and Wildlife Conservation FAR 21.25(b)(2)

FAR 29, Amendments 29-1 through 29-17 for non-U.S. Army approved modifications.

See Note 15 for Noise Requirements.

PRODUCTION BASIS:

Production Certificate No. 105 and 8S0.

EQUIPMENT:

The following must be installed in each type helicopter for certification:

(1) Sikorsky Rotorcraft Flight Manual (Operator's Manual) Publication TM 551520-237-10T. (See Note 5.) For aircraft Serial Numbers 701825 and 701835, TM 55-1520-237-10HK, dated October 29, 1992, as revised, is applicable. For aircraft Serial Number 701129, TM55-1520-237-10B, dated June 22, 1992, as revised, is applicable.

(2) Removal and replacement of equipment in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003 (Dash number as applicable). (See Notes 5, 6, 7, 13 and 14)

(3) Aircraft must be modified with Stabilator Amplifier P/N 70902-02001-048; Pitot Static Probe Support, Assembly P/N 70219-02141-041 (left side), -042 (right side); and Pitot Static Probe Fairing, Assembly P/N 70219-02141-043 (left side), -44 (right side).

II. MODEL NUMBER:

S-70M (Restricted Category) Approved: February 11, 2019
(Derivative aircraft of U.S. Army Model UH-60M)

ENGINES:

2 General Electric T700-GE-701D

FUEL:

JP-4, JP-5, JP-8, Jet A, Jet A1, or Jet B

ENGINE LIMITS:

| | SHAFT HP (S.L. STD) | POWER TURBINE RPM/% | GAS GEN RPM/% | TURBINE GAS TEMP.°C |
|--|------------------------|------------------------|------------------|------------------------|
| Contingency Rated Power (CRP) (2 1/2 min. OEI) | 2,000 | 20,900/100 | 46,935/105 | 903 |
| Maximum Rating (10 min. dual) | 1,994 | 20,900/100 | 46,935/105 | 879 |
| Intermediate Rated Power (IRP) (30 min. dual) | 1,902 | 20,900/100 | 46,935/105 | 846 |
| Maximum Continuous Power (MCP) | 1,716 | 20,900/100 | 46,935/105 | 793 |

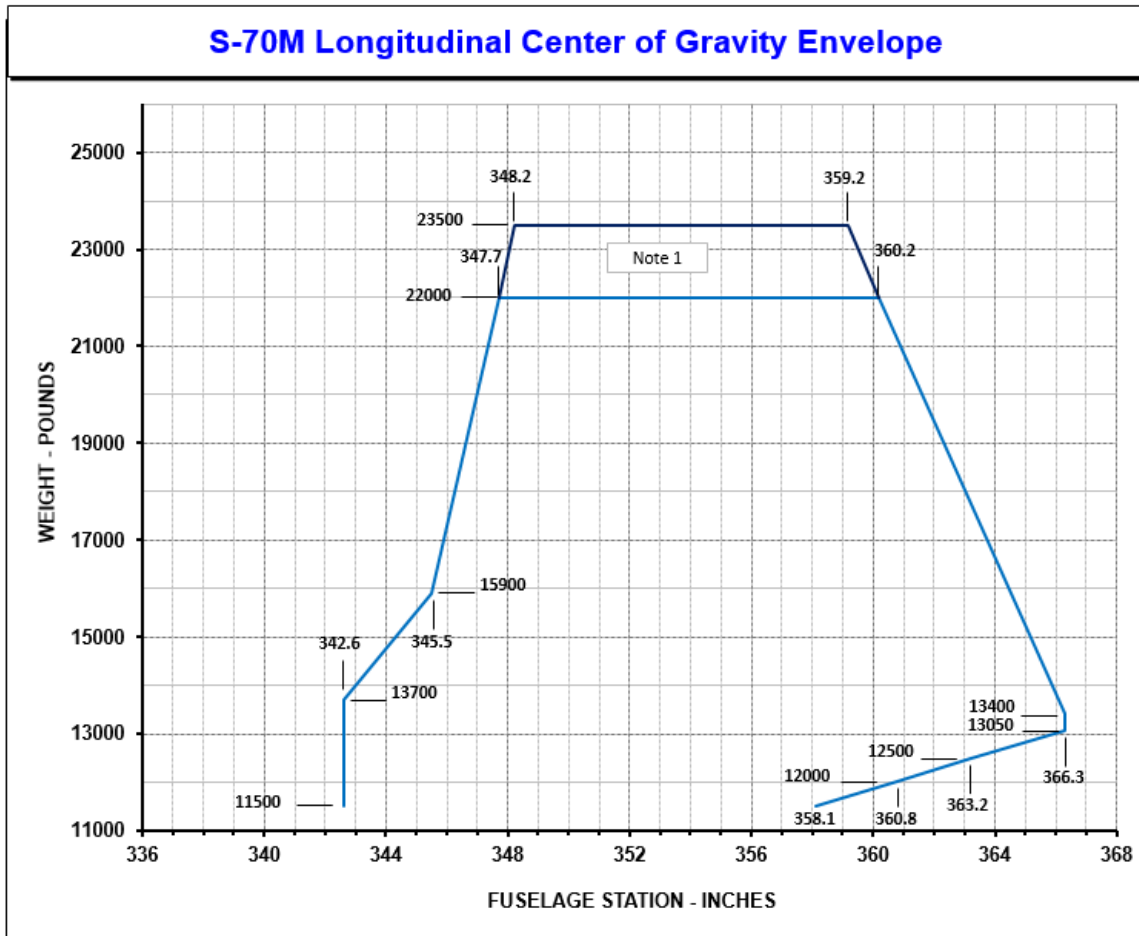
TRANSMISSION LIMITS:

TORQUE
135% Single Engine
120% Dual Engine (\leq 80 KIAS)
100% Dual Engine (\geq 80 KIAS)
(no time limits)

ROTOR LIMITS: POWER OFF: Maximum 110%
 Minimum 90%

POWER ON: Maximum 107%
 Minimum 91%

AIRSPEED LIMITS: Vne Power on: 193 knots IAS, (221 MPH). See appropriate Rotorcraft Flight Manual (Operators Manual) for variation of Vne with gross weight, pressure altitude and temperature.



EMPTY WEIGHT None.
 C.G. RANGE:

DATUM: 341 inches forward of the main rotor centroid.

LEVELING MEANS: Leveling plate at STA 309.62, BL 35 LH, and plumb line from top of LH forward cabin doorframe.

MAXIMUM WEIGHT: INTERNAL: 22,000 lbs.
 EXTERNAL: 23,500 lbs.

MINIMUM CREW: 2 (Pilot, Co-Pilot)

NUMBER OF SEATS:

(No Passengers Permitted)

a. 2 at Sta. 227; 2 at Sta. 284; 3 at Sta. 321; 4 at Sta. 340; 4 at Sta. 387

b. OPTIONAL SEATING: 2 at Sta. 282; 1 at Sta. 282

MAXIMUM FLOOR LOADING: 300 lb./sq. ft.

STORAGE COMPARTMENT
MAXIMUM CAPACITY: 125 lb.

FUEL CAPACITY: 360 gallons; 2 tanks.

OIL CAPACITY: 7 quarts each engine.

OTHER OPERATING
LIMITATIONS:

TM 1-S70M-280-10 S-70M Operator's Manual dated August 25, 2020, as revised.

SERIAL NUMBERS
ELIGIBLE:

704091, 704120 (See Note 19)

TYPE CERTIFICATION
BASIS:

FAR 21.25(a)(2), effective January 6, 1975, for the purpose of:

(1) Agriculture, FAR 21.25(b)(1)

(2) External Cargo, FAR 21.25(b)(7)

(3) Forest and Wildlife Conservation FAR 21.25(b)(2)

For modifications, the baseline certification basis (as defined in 8110.56B) is 14 CFR 29 dated February 1, 1965, including Amendments 29-1 through 29-17. See Note 20.

In accordance with 14CFR Part 36.1(a)(4), compliance with the noise requirements was not shown. Therefore, aircraft certificated under this Type Certificate are only eligible for agricultural operations defined in 14CFR 137.3, aerial dispensing of liquids and forest conservation material as defined by 14CFR 137.3, or external loads as defined in 14CFR 133.1(b).

Helicopter fuel system safety per FAA Reauthorization Act of 2018 Section 317, enacted October 05, 2018. Compliance has been established with 49 U.S.C. §44737 (2018) [29.952(a)(1), (2), (3), (5), (6), 29.952(c)(1)(ii), (iii), (iv), (v), (c)(2)(excluding fatigue), (f), (g), and 29.963(b) as amended by Amendment 29-35 and 29.975(a)(7) as amended by Amendment 29-42. Equivalent Level of Safety AT02311BO-R / P-1 for 29.952(c)(1)(i) and the fatigue requirements of 29.952(c)(2) as amended by Amendment 29-35].

PRODUCTION BASIS:

Sikorsky Aircraft Corporation
Production Certificate Number 105

EQUIPMENT:

The following must be installed in each type helicopter for certification:

(1) Sikorsky Rotorcraft Flight Manual (Operator's Manual) Publication TM 1-S70M-280-10 (see Note 16), as revised.

(2) Removal and replacement of equipment in accordance with Sikorsky Aircraft Kit Drawing No. 70000-00120-046.

NOTES

NOTE 1: Current weight and balance report, including list of equipment in certificated empty weight, and loading instructions must be in each type helicopter at time of original airworthiness certification and at all times thereafter.

NOTE 2: The following placard must be prominently displayed in the cockpit in full view of the pilots: "THIS ROTORCRAFT MUST BE OPERATED IN ACCORDANCE WITH THE RESTRICTED CATEGORY OPERATING LIMITATIONS OF FAR 91.39." FAR 91.39 became FAR 91.313 in the recodification dated August 18, 1989.

NOTE 3: For Model S-70A: Prior to Civil Airworthiness Certification, compliance with Sikorsky Aircraft document number IILS-L-88-006, dated October 5, 1988, as revised, must be accomplished.

For Model S-70M: Prior to Civil Airworthiness Certification, compliance with Sikorsky Aircraft document number ASB/MAM-Armyint-PUB-001, dated August 18, 2017, as revised, must be accomplished.

NOTE 4: For Model S-70A: Information essential to proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-1, -2, and -3, dated June 10, 1989; TM 55-1520-237-23, Volumes 1 thru 8, dated August 29, 1989; TM 55-1520-237T, dated August 29, 1989; TM 55-1520-237-PMS-1, dated June 30, 1990; TM 55-1520-237-PMS-2, dated August 30, 1990; TM 55-1520-237-CL, dated June 10, 1989; TM 55-1520-237-MTF, dated November 13, 1990, and Sikorsky Supplement C-7 to these publications. Information essential to the proper maintenance of the T700-GE-701A engines is contained in General Electric Publications SEI 671 and 673, as revised and U.S. Army TM 1-2840-24823&P, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23, Volume 1, Chapter 1, Table I-II, dated August 29, 1989, as revised, and Sikorsky Supplement C-7, unless superseded by appropriate airworthiness directive. (See NOTE 10). Alternate information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated April 30, 1979; TM 55-1520-23723-1, dated December 8, 1987; TM 55-1520-237-2, through -10, dated December 29, 1978; TM 55-1520-237-PMS-1, dated July 14, 1988; TM 55-1520-237-PMS-2, dated April 12, 1988; TM 55-1520-237-CL, dated August 15, 1987; TM 55-1520-237-MTF, dated January 8, 1988, and Sikorsky Supplement No. C-1 to these publications. Information essential to the proper maintenance of the T700-GE-701A engines is contained in General Electric Publications SEI 671 and 673, as revised, and U.S. Army TM 1-2840-24823&P, as revised. Component and overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23-2, dated December 29, 1978; and Sikorsky Supplement C-1 to this publication, unless superseded by appropriate Airworthiness Directive. (See NOTE 10)

The U.S. Army replaced TM 55-1520-237-23-1 through -10 with a single manual, TM 55-1520-237-23, composed of 18 chapters and 8 appendices divided into 8 volumes. Either set of TM's may be used. (See NOTE 10)

Information on civil aircraft serial number correlation to U.S. Army serial numbers is contained in Sikorsky Letter TPL-W91-450, dated July 23, 1991, as revised or Sikorsky Engineering Report SER-51010189 dated 7 June 2016, as revised.

For Model S-70M: Information essential to proper maintenance of the aircraft is contained in the following publications, as revised: TM 1-S70M-280-23, volume 1 thru 11, dated July 1, 2021; TM 11-S70M-280-23, dated September 1, 2021; TM 1-S70M-280-PMD (Work Packages 0001 through 0007) dated July 1, 2021; TM 1-S70M-280-PMI (Work Packages 0001 through 0015) dated July 1, 2021; TM 1-S70M-280-PMS (Work Packages 0001 through 0008), dated July 1, 2021; TM 1-S70M-280-23P dated September 1, 2021; TM 11-S70M-280-23P dated 1 September 2021. Information essential to the proper maintenance of the T700-GE-701D engines is contained in General Electric Publication SEI 671, as revised. Component overhaul and replacement times shall be in accordance with TM 1-S70M-280-AWL dated July 20, 2021, as revised. (See NOTE 16).-

NOTE 5: For Model S-70A: For aircraft equipped with optional engines: (UH-60L derivative)

ENGINES: 2 General Electric T700-GE-701C

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A1, or Jet B

| ENGINE LIMITS | SHAFT | POWER | GAS. | TURBIN |
|--|-------|------------|-------|--------|
| | HP | TURBINE | GEN. | E GAS |
| Contingency Rated Power (CRP) 2 1/2 min. OEI) | 1,940 | 20,900/100 | 44,70 | 903 |
| Maximum Rating (10 min. dual | 1,890 | 20,900/100 | 44,70 | 878 |
| Intermediate Rated Power (IRP) (30 min. dual) | 1,800 | 20,900/100 | 44,70 | 851 |
| Maximum Continuous Power (MCP) | 1,662 | 20,900/100 | 44,70 | 810 |

TRANSMISSION LIMITS:

TORQUE

135% Single Engine (No time limits)

120% Dual Engine (No time limits)

Other Operating Limitations: U.S. Army TM 55-1520-237-10, UH-60A and EH-60A Operator's Manual, dated January 8, 1988, as revised, or U.S. Army TMI-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky Supplements C-4 and C-5, dated October 26, 1990, as revised. For aircraft Serial Numbers 701825 and 701835, TM 55-1520-237-10HK, dated October 29, 1992, as revised, is applicable.

Equipment: Each type certificated helicopter with T700-GE-701C engines installed must be equipped with U.S. Army TM 55-1520-237-10, UH-60A and EH-60A Operator's Manual, dated January 8, 1988 as revised, or U.S. Army TM-1-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky supplements No. C-4 and C-5, dated October 26, 1990, as revised. For aircraft serial numbers 701825 and 701835, TM 55-1520-237-10HK Operator's Manual dated October 29, 1992, as revised, is applicable.

Removal and replacement of equipment is in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003 (Dash number as applicable).

Information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated June 10, 1989; TM 55-1520-237-23, Volumes 1 through 8, dated August 29, 1989; TM 55-1520-237T, dated August 29, 1989; TM 55-1520-237-PMS-1, dated June 30, 1990; TM 55-1520-237-PMS-2, dated August 30, 1990; TM 55-1520-237-CL, dated June 10, 1989; TM 55-1520-237-MTF, dated November 13, 1990; and Sikorsky supplement C-7 to these publications. Information essential to the proper maintenance of the T700-GE-701C engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981, as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23, Volume 1, Chapter 1, Table I-II, dated August 29, 1989, as revised, and Sikorsky supplement C-7 to this publication, unless superseded by appropriate airworthiness directive. (See NOTE 10)

Alternate information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated April 30, 1979; TM 55-1520-23723-1, dated December 8, 1987; TM 55-1520-237-23-2 through -10, dated December 29, 1978; TM 55-1520-237-PMS-1, dated July 14, 1988; TM 55-1520-237-PMS-2, dated April 12, 1988; TM 55-1520-237-CL, dated August 15, 1987; TM 55-1520-237-MTF, dated January 8, 1988; and Sikorsky Supplement C-1 to these publications. Information essential to the proper maintenance of the T700-GE-701C engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981; as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23-2, dated December 29, 1978; and Sikorsky Supplement C-1 to this publication, unless superseded by appropriate Airworthiness Directive. (See NOTE 10)

The U.S. Army replaced TM 55-1520-237-23-1 through -10 with a single manual, TM 55-1520-237-23, composed of 18 chapters and 8 appendices divided into 8 volumes. Either set of TM's may be used. (See NOTE 10)

Information on civil aircraft serial number correlation to U.S. Army serial numbers is contained in Sikorsky Letter TPL-W91-450, dated July 23, 1991, as revised, or Engineering Report SER-51010189 dated 7 June 2016, as revised.

NOTE 6: For Model S-70A:

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003-013.

SERIAL NUMBERS ELIGIBLE: 701613 and 701614.

Note 5 applies, except the only applicable TM 55-1520-237-10 Operator's Manual Sikorsky Supplement is C-7, dated May 24, 1991, as revised. Removal and replacement of equipment is in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003-013.

NUMBER OF SEATS: 2 at Sta. 227.1; 2 at Sta. 283.5; 2 at Sta. 329.5; 4 at Sta. 384.3 Compliance with FAR 29.853 has been demonstrated.

NOTE 7: For Model S-70A:

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003-015.

SERIAL NUMBER ELIGIBLE: 701129

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing No. 70080-95011-011.

SERIAL NUMBER ELIGIBLE: 702029

Information essential to the proper maintenance of the aircraft is contained in the following publications:

| | |
|-------------------|--|
| TM1-1520-237-10B | Operators Manual |
| TM1-1520-237-CLB | Operators and Crewmembers Checklist |
| TM1-1520-237-MTFB | Maintenance Test Flight Manual |
| TM1-70-29-23 | Aircraft Maintenance Procedures Manual |
| TM1-70-29-PMS-1 | 10 Hour/14Day (30 hour/42 day) Inspection Checklist |
| TM1-70-29-PMS-2 | Periodic Inspection Checklist |
| TM1-70-29-23P | Airframe Repair Parts and Special Tools List |
| TM11-70-29-23 | Avionics Maintenance Procedures Manual |
| TM11-70-29-23P | Avionics Configuration Repair Parts and Special Tools List |

NUMBER OF SEATS: 2 at Sta. 227.1; 2 at Sta. 283.5; 2 at Sta. 329.5; 3 at Sta. 384.3.

Compliance with FAR 29.853 (a) only has been demonstrated.

NOTE 8: For Model S-70A:

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing Nos. 33770-51668, 70080-60031, 33770-81008. SERIAL NUMBER ELIGIBLE: 700029

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing Nos. 33770-51664, 33880-60013, 33770-81008. SERIAL NUMBER ELIGIBLE: 702129

For aircraft configured in accordance with Sikorsky Aircraft Kit Drawing Nos. 33770-51666, 70080-60031, 33770-81008. SERIAL NUMBER ELIGIBLE: 702929

Information essential to the proper maintenance of these aircraft is contained in the following publications:

| | |
|------------------|---|
| TM 1-70-29-10 | Operator's Manual |
| TM 1-70-29-CL | Operator's and Crewmember's Checklist |
| TM 1-70-29-MTF | Maintenance Test Flight Manual |
| TM 1-70-29-23 | Aircraft Maintenance Procedures Manual |
| TM 1-70-29-PMS-1 | 10 hour/14 day(30 hour/42 day) Inspection Checklist |

| | |
|------------------|--|
| TM 1-70-29-PMS-2 | Periodic Inspection Checklist |
| TM 1-70-29-23P | Airframe Repair Parts and Special Tools List |
| TM 11-70-29-23 | Avionics Maintenance Procedures Manual |
| TM 11-70-29-23P | Avionics Configuration Repair Parts and Special Tools List |

Number of seats: 2 at Sta. 227.1; 2 at Sta. 283.5; 2 at Sta. 329.5; 3 at Sta. 384.3

Compliance with FAR 29.853(a) only has been demonstrated.

NOTE 9: For Model S-70A: S-70A derivatives of UH-60L aircraft may be operated at gross weights up to 23,500 pounds during external load operations, and hook loads up to 9,000 pounds in accordance with U.S. Army Aviation Safety Message 051326Z Jul 94, or appropriately revised FAA approved Operator's Manual. U.S. Army Safety Message 051325Z Jul 94, Serial Number 91-26354 is Sikorsky Serial Number 701656 and Serial Number 91-26421 is Sikorsky Serial Number 701771.

NOTE 10: For Model S-70A: The following table lists equivalent sets of technical data approved for proper maintenance of the aircraft.

| U.S. Army Manuals | | S-70A Commercial Manuals |
|----------------------|---------------------|-------------------------------|
| Old | New | |
| TM 55-1520-237-10 | TM 1-1520-237-10 | FAA Approved RFM |
| TM55-1520-237-MTF | TM 1-1520-237-MTF | Not Applicable |
| TM 55-1520-237-CL | TM 1-1520-237-CL | Not Applicable |
| TM 55-1520-237-PMS-1 | TM 1-1520-237-PMS-1 | TM 1-70-PMS-1 |
| TM 55-1520-237-PMS-2 | TM 1-1520-237-PMS-2 | TM 1-70-PMS-2 |
| TM 55-1520-237-23 | TM 1-1520-237-23 | TM 1-70-23 and TM 1-70-23AW-2 |
| TM 55-1520-237-T | TM 1-1520-237-T | TM 1-70-T |
| TM 55-1520-237-23P | TM 1-1520-237-23P | TM 1-70-23P |
| TM 11-1520-237-23 | TM 11-1520-237-23 | TM 11-70-23 |
| TM 11-1520-237-23P | TM 11-1520-237-23P | TM 11-70-23P |
| TM 11-1520-237-23P | TM 11-1520-237-23P | Not Applicable |

The initial publication date of the U.S. Army TM 1 series was 31 August 1994.

The initial publication date of the Sikorsky TM-1 series was 31 August 1994.

NOTE 11: Deleted by previous revision.

NOTE 12: Deleted by revision 12.

NOTE 13: For Model S-70A: For aircraft equipped with optional engines: (UH-60L derivative only)

ENGINES: 2 General Electric T700-GE-701D/CC

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A1, or Jet B

ENGINE LIMITS

| | SHAFT HP (S.L. STD.) | POWER TURBINE RPM/% | GAS. GEN. RPM/% | TURBINE GAS TEMP. °C |
|---|-------------------------|------------------------|--------------------|-------------------------|
| Contingency Rated Power (CRP) 2 1/2 min. OEI) | 1,940 | 20,900/100 | 44,700 /102 | 903 |
| Maximum Rating | 1,890 | 20,900/100 | 44,700/102 | 878 |

(10 min. dual)

| | | | | |
|---|-------|------------|------------|-----|
| Intermediate Rated Power (IRP) (30 min. dual) | 1,800 | 20,900/100 | 44,700/102 | 851 |
| Maximum Continuous Power (MCP) | 1,662 | 20,900/100 | 44,700/102 | 810 |

TRANSMISSION LIMITS: TORQUE
 135% Single Engine (No time limits)
 120% Dual Engine (No time limits)

EQUIPMENT: Removal and replacement of equipment in accordance with Sikorsky Aircraft Top Kit Drawing 70070-30258 (dash number as applicable).

Other Operating Limitations: U.S. Army TMI-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky Supplements C-4 and C-5, dated October 26, 1990, as revised. For aircraft Serial Numbers 701825 and 701835, TM 55-1520-237-10HK, dated October 29, 1992, as revised, is applicable.

Equipment: Each type certificated helicopter with T700-GE-701D/CC engines installed must be equipped with U.S. Army TM-1-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky supplements No. C-4 and C-5, dated October 26, 1990, as revised. For aircraft serial numbers 701825 and 701835, TM 55-1520-237-10HK Operator's Manual dated October 29, 1992, as revised, is applicable.

Removal and replacement of equipment is in accordance with Sikorsky Aircraft Kit Drawing No. 70010-00003 (Dash number as applicable).

Information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated June 10, 1989; TM 55-1520-237-23, Volumes 1 through 8, dated August 29, 1989; TM 55-1520-237T, dated August 29, 1989; TM 55-1520-237-PMS-1, dated June 30, 1990; TM 55-1520-237-PMS-2, dated August 30, 1990; TM 55-1520-237-CL, dated June 10, 1989; TM 55-1520-237-MTF, dated November 13, 1990; and Sikorsky supplement C-7 to these publications. Information essential to the proper maintenance of the T700-GE-701D/CC engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981, as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23, Volume 1, Chapter 1, Table I-II, dated August 29, 1989, as revised, and Sikorsky supplement C-7 to this publication, unless superseded by appropriate airworthiness directive. (See NOTE 10)

Alternate information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated April 30, 1979; TM 55-1520-23723-1, dated December 8, 1987; TM 55-1520-237-23-2 through -10, dated December 29, 1978; TM 55-1520-237-PMS-1, dated July 14, 1988; TM 55-1520-237-PMS-2, dated April 12, 1988; TM 55-1520-237-CL, dated August 15, 1987; TM 55-1520-237-MTF, dated January 8, 1988; and Sikorsky Supplement C-1 to these publications. Information essential to the proper maintenance of the T700-GE-701D/CC engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981; as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23-2, dated December 29, 1978; and Sikorsky Supplement C-1 to this publication, unless superseded by appropriate Airworthiness Directive. (See NOTE 10)

The U.S. Army replaced TM 55-1520-237-23-1 through -10 with a single manual, TM 55-1520-237-23, composed of 18 chapters and 8 appendices divided into 8 volumes. Either set of TM's may be used. (See NOTE 10)

Information on civil aircraft serial number correlation to U.S. Army serial numbers is contained in Sikorsky Letter TPL-W91-450, dated July 23, 1991, as revised.

NOTE 14: For Model S-70A: For aircraft equipped with optional engines: (UH-60A derivative only)

ENGINES: 2 General Electric T700-GE-701D/CC

FUEL: Aviation Kerosene JP-4, JP-5, JP-8, Jet A, Jet A1, or Jet B

ENGINE LIMITS

| | SHAFT HP (S.L. STD.) | POWER TURBINE RPM/% | GAS. GEN. RPM/% | TURBINE GAS TEMP. °C |
|---|-------------------------|------------------------|--------------------|-------------------------|
| Contingency Rated Power (CRP) 2 1/2 min. OEI) | 1,940 | 20,900/100 | 44,700 /102 | 903 |
| Maximum Rating (10 min. dual) | 1,890 | 20,900/100 | 44,700/102 | 878 |
| Intermediate Rated Power (IRP) (30 min. dual) | 1,800 | 20,900/100 | 44,700/102 | 851 |
| Maximum Continuous Power (MCP) | 1,662 | 20,900/100 | 44,700/102 | 810 |

TRANSMISSION LIMITS: TORQUE
 135% Single Engine (No time limits)
 120% Dual Engine (No time limits)

EQUIPMENT: Removal and replacement of equipment in accordance with Sikorsky Aircraft Drawings as listed below:

70351-48100 or 70351-58100 (Main Gearbox)
70070-55238-014 INSTRUMENT PANEL
70000-30100-043 HARDWARE SET
70070-30258-013 MOD KIT
70070-60220-014 KIT ENG HARNESS
70070-30258-015 MOD KIT
70070-30258-025 TUBE INSTL
70070-60220-013 CONVERTER
70070-60220-016 OVERHEAD CONSOLE
70070-60485-012 AVIONICS
70550-01126-075 AVIONICS
70550-01126-076 AVIONICS
70070-40037-015 FLIGHT CONTROLS KIT
70070-40037-016 FLIGHT CONTROLS KIT
70070-40039-011 MIXER ASSY KIT
70070-30258 ENGINE INSTALL

Other Operating Limitations: U.S. Army TM 1-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky Supplements C-4 and C-5, dated October 26, 1990, as revised. For aircraft Serial Numbers 701825 and 701835, TM 55-1520-237-10HK, dated October 29, 1992, as revised, is applicable.

Equipment: Each type certificated helicopter with T700-GE-701D/CC engines installed must be equipped with U.S. Army TM-1-1520-237-10, UH-60A, UH-60L, EH-60A Operator's Manual, dated August 31, 1994, as revised, and Sikorsky supplements No. C-4 and C-5, dated October 26, 1990, as revised. For aircraft serial numbers 701825 and 701835, TM 55-1520-237-10HK Operator's Manual dated October 29, 1992, as revised, is applicable. Removal and replacement of equipment is in accordance with Sikorsky Aircraft Kit Drawing No. 7001000003 (Dash number as applicable).

Information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated June 10, 1989; TM 55-1520-237-23, Volumes 1 through 8, dated August 29, 1989; TM 55-1520-237T, dated August 29, 1989; TM 55-1520-237-PMS-1, dated June 30, 1990; TM 55-1520-237-PMS-2, dated August 30, 1990; TM 55-1520-237-CL, dated June 10, 1989; TM 55-1520-237-MTF, dated November 13, 1990; and Sikorsky supplement C-7 to these publications. Information essential to the proper maintenance of the T700-GE-701D/CC engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981, as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23, Volume 1, Chapter 1, Table I-II, dated August 29, 1989, as revised, and Sikorsky supplement C-7 to this publication, unless superseded by appropriate airworthiness directive. (See NOTE 10)

Alternate information essential to the proper maintenance of the aircraft is contained in the following U.S. Army publications, as revised: TM 11-1520-237-23-1, -2, and -3, dated April 30, 1979; TM 55-1520-23723-1, dated December 8, 1987; TM 55-1520-237-23-2 through -10, dated December 29, 1978; TM 55-1520-237-PMS-1, dated July 14, 1988; TM 55-1520-237-PMS-2, dated April 12, 1988; TM 55-1520-237-CL, dated August 15, 1987; TM 55-1520-237-MTF, dated January 8, 1988; and Sikorsky Supplement C-1 to these publications. Information essential to the proper maintenance of the T700-GE-701D/CC engines is contained in U.S. Army TM 55-2840-248-23, dated December 31, 1981; as revised and General Electric Publication SEI-671, as revised. Component overhaul and replacement times shall be in accordance with U.S. Army TM 55-1520-237-23-2, dated December 29, 1978; and Sikorsky Supplement C-1 to this publication, unless superseded by appropriate Airworthiness Directive. (See NOTE 10).

The U.S. Army replaced TM 55-1520-237-23-1 through -10 with a single manual, TM 55-1520-237-23, composed of 18 chapters and 8 appendices divided into 8 volumes. Either set of TM's may be used. (See NOTE 10)

Information on civil aircraft serial number correlation to U.S. Army serial numbers is contained in Sikorsky Letter TPL-W91-450, dated July 23, 1991, as revised or Engineering Report SER-51010189 dated 7 June 2016, as revised.

NOTE 15: For Model S-70A: In accordance with 14CFR Part 36.1(a)(4), compliance with the noise requirements was not shown. Therefore, aircraft certificated under this Type Certificate are only eligible for agricultural operations defined in 14CFR 137.3, aerial dispensing of liquids and forest conservation material as defined by 14CFR 137.3, or external loads as defined in 14CFR 133.1(b).

NOTE 16: Technical manuals have been created in accordance with the tables below for Model S-70M (See Note 4).

| Title | U.S. Army Manual | S-70M Commercial Manual |
|--|--------------------|-------------------------|
| Operators Manual | TM 1-1520-280-10 | TM 1-S70M-280-10 |
| Operators and Crewmembers Checklist | TM 1-1520-280-CL | TM 1-S70M-280-CL |
| Maintenance Test Flight Manual | TM 1-1520-280-MTF | TM 1-S70M-280-MTF |
| Aircraft Maintenance Procedures Manual | TM 1-1520-280-23 | TM 1-S70M-280-23 |
| Aircraft Repair Parts and Special Tools List | TM 1-1520-280-23P | TM 1-S70M-280-23P |
| Phased Maintenance Inspection Checklist | TM 1-1520-280-PMI | TM 1-S70M-280-PMI |
| Preventive Maintenance Services Inspection Checklist | TM 1-1520-280-PMS | TM 1-S70M-280-PMS |
| Preventive Maintenance Daily Inspection | TM 1-1520-280-PMD | TM 1-S70M-280-PMD |
| Avionics Maintenance Procedures Manual | TM 11-1520-280-23 | TM 11-S70M-280-23 |
| Avionics Configuration Repair Parts and Special Tools List | TM 11-1520-280-23P | TM 11-S70M-280-23P |
| Airworthiness Limitations Manual | N/A | TM 1-S70M-280-AWL |

NOTE 17: Restricted category aircraft may not be operated in a foreign country without the express written approval of that country.

NOTE 18: This aircraft has not been shown to meet the requirements of the applicable comprehensive and detailed airworthiness code as provided by Annex 8 of the Convention on International Civil Aviation.

NOTE 19: For Model S-70M: A physical helicopter must be produced and conformity inspections must be performed. All production quality requirements must be met, and the PC and PLR approval shall be worked with the appropriate Manufacturing Inspection Office.

The Rotorcraft and Powered Lift Aircraft Evaluation Group will perform a Flight Standardization Board (FSB) to determine the Type Rating, Training and Checking Requirements, prior to the S-70M entering operational service.

NOTE 20: For modifications approved in accordance with FAA Order 8110.56B (or latest revision) Section 4-15(e): Modifications Previously Qualified by the U.S. Armed Forces, or other modifications approved in accordance with the CFR 29 certification basis, reference Sikorsky Aircraft Drawing No's. S7079-00000-012 (S-70M Type Certified Options) and 70070-00001-012 (S-70M Type Certified Field Modifications).

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