



R22 ILLUSTRATED PARTS CATALOG RTR 060 VOLUME II

Production Certificate Number 424WE

Type Certificate Number H10WE



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Viewing RHC Maintenance Manuals (MMs) and Illustrated Parts Catalogs (IPCs) online at <https://robinsonheli.com/publications> is recommended to ensure use of current data. Viewing MMs and IPCs offline via paper or digital download requires verification that the data is current. Refer to the online MM or IPC Revision Log for the list of current pages.

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Please direct recommended changes to RHC Technical Publications via the email address listed below, by phone, or by submitting a duplicate of this completed form by fax or mail. Please include or have available the information detailed in this form.

Recommended changes may include but are not limited to general comments, corrections, omitted information, or clarification of instructions.

Please send recommendations to:

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Date:	_____	Publication:	_____
Name:	_____	Chapter:	_____
Company:	_____	Section:	_____
Helicopter Model:	_____	Page:	_____
Serial Number:	_____	Revision:	_____
Phone:	_____		
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COMMENTS:

CATALOG FEATURES

INTRODUCTION

The Illustrated Parts Catalog (IPC) is used in conjunction with the R22 Maintenance Manual (MM) to provide instructions for continued airworthiness. The IPC identifies parts, components, and detail parts that make up, and are required to support, the R22 helicopter. RHC uses a modified Air Transport Association (ATA) chapter structure to organize the various systems of the R22 Helicopter.

The catalog features:

1. A chapter list
2. A table of contents located in the front of the catalog
3. A table of contents at the front of each chapter

PART DESIGNATION

Robinson parts are designated with a part number prefix "A", "B", "C", etc., followed by three digits and a dash number, such as A101-1. Robinson special tools are designated with a part number prefix "MT". For standard hardware items such as bolts, nuts, screws, etc., "AN", "MS", and "NAS" part numbers are used. When a rivet length is not specified, length must be determined by the installer. In some instances, vendor part numbers are also used.

PARTS AVAILABILITY

"X" indicates part is available as a separate spares item.

"O" indicates part is no longer available, or only available as part of a higher assembly.

CHANGE BARS

Change bars are located on the outside edge of the page, and indicate new or revised data. Change bars between lines indicate data was removed, and parts renumbered as required. Change bars on figure pages indicate changes to the figure somewhere across the page in the area of the change bar. A change bar encompassing the figure title and item 1 indicates the figure number changed. Change bars that are the full length of the page indicate all new data, usually a new figure and parts data.

ABBREVIATIONS

Assy – assembly	max – maximum	rev. – Revision
A/R – as required	min – minimum	RH – right hand
A.O.G. – Aircraft On Ground	MM – Maintenance Manual	RHC – Robinson Helicopter Company
Cont'd – continued	MR – main rotor	§ – Section
Incl – includes	OH/EXCH – Overhaul/Exchange	TR – Tail Rotor
LH – left hand	Ref – Part(s) "referenced" for clarity	TRDS – Tail Rotor Drive Shaft

ORDERING AND SHIPPING

All orders must include instructions for shipping.

WARRANTY

Helicopter and parts warranty information is located at <https://robinsonheli.com>.

RETURNS

All parts or components shipped to RHC must include a signed Component Return/Authorization Form. Return shipments must be prepaid.

No unused parts may be returned to RHC for credit if the parts show any indication whatsoever of use or damage. Parts returned within 30 days of purchase will be assessed a restocking fee. No parts may be returned after 30 days without prior RHC approval.

CATALOG FEATURES (Cont'd)

REVISIONS

RHC Illustrated Parts Catalogs (IPCs) are available digitally at <https://robinsonheli.com>, under the Publications tab. Access to these publications does not require an account and is free of charge.

Viewing the IPC online is recommended to ensure use of current data.

Viewing the IPC offline via paper or digital download requires verification that the data are current. Refer to the online IPC Revision Log for the list of current pages.

Alphabetical and numerical indices have been deleted.

Sign up for free E-mail notification of revisions to IPCs by visiting <https://robinsonheli.com/publications> and clicking Subscribe.

HOW TO USE THE ILLUSTRATED PARTS CATALOG

The IPCs are available digitally at <https://robinsonheli.com>, under the Publications tab. Files are available in PDF format. A keyword or part number search may help locate applicable data. Open the chapter or full book PDF and launch a “search” or “find” window (Ctrl + F [PC] or Command + F [Mac]).

A search by system may be performed when the part number is not known. Go to the Chapter List on page iii, and determine the appropriate chapter. In the Chapter Table of Contents, determine from Figure titles where the item may logically appear. On the selected Figure illustration, locate the item and corresponding item number, and verify the item number by reading the description. Be sure to read any notes (indicated by asterisk) to ensure the item is current for your aircraft.

PART INTERCHANGEABILITY

The following parts are interchangeable. Unless noted otherwise, whenever one part is referred to in this catalog, its substitute part is also permitted.

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
110- __ Telatemp	F110- __ Telatemp
22K1-048 Cap nut	B340-10 Cap nut
22K1-82 Cap nut	B340-4 Cap nut
354601 Fuse block	D262-1 Fuse block
354602 Fuse block	D262-2 Fuse block
4509 & Q4509 Lamp	B196-26 Lamp
4591 Lamp	B196-27 Lamp
511TS1-3 Switch	B300-4 Switch
94830A030 Nut	21FKF-518 Nut
AN_ and MS_ part	AS_ part or A880 part numbers. See pages x thru xx.
AN340 Nut	MS35649 Nut per NASM35649 except AN340B8 Nut
AN340B8 Nut	B301-8 Nut
AN345 Nut	MS35650 Nut per NASM35650
AN364 Nut	MS21083 Nut per NASM21083
AN507 Screw	MS24693 Screw per NASM24693
AN509 Screw	MS24694 Screw per NASM24694
AN515 Screw	MS35206 Screw per NASM35206
AN515C Screw	MS51957 Screw
AN515UB6R6 Screw	B567-25 Screw
AN515UB6R10 Screw	B567-28 Screw
AN515UB8R10 Screw	B567-43 Screw
AN515UB8R12 Screw	B567-44 Screw
AN515UB8R20 Screw	MS35214-47 Screw per NASM35214
AN525 & AN526 Screw	MS27039C Screw per NASM27039, or B526-6 or -8 Screw and B527-08 Washer per R22 MM § 23-86. Except where noted.
AN814 & MS24391 Plug	AS5169 Plug
AN815 & MS24392 Union	AS5174 Union
AN818- __ D Nut	AN818- __ W Nut
AN819 & MS20819 Sleeve	AS5176 Sleeve
AN822 & MS20822 Elbow	AS5195 Elbow
AN823 & MS20823 Elbow	AS5196 Elbow
AN825 & MS20825 Tee	AS5197 Tee
AN826 & MS20826 Tee	AS5198 Tee
AN894 & MS24398 Bushing	AS5173 Bushing
AN900 Gasket	MS35769 Gasket per AS35769
AN924 & MS24400 Nut	AS5178 Nut
AN931 Grommet	MS35489 Grommet
AN935 Lockwasher	B332- __ Lockwasher, dash number per MS35338
AN936 Lockwasher	MS35335 Lockwasher
AN960-4L Washer	NAS1149FN416P Washer
AN960-4 Washer	NAS1149FN432P Washer
AN960-6L Washer	NAS1149FN616P Washer
AN960-6 Washer	NAS1149FN632P Washer
AN960-8L Washer	NAS1149FN816P Washer
AN960-8 Washer	NAS1149FN832P Washer
AN960-10L Washer	NAS1149F0332P Washer

PART INTERCHANGEABILITY (Cont'd)

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
AN960-10 Washer	NAS1149F0363P Washer
AN960-416L Washer	NAS1149F0432P Washer
AN960-416 Washer	NAS1149F0463P Washer
AN960-516L Washer	NAS1149F0532P Washer
AN960-516 Washer	NAS1149F0563P Washer
AN960-616L Washer	NAS1149F0632P Washer
AN960-616 Washer	NAS1149F0663P Washer
AN960-816L Washer	NAS1149F0832P Washer
AN960-816 Washer	NAS1149F0863P Washer
AN960-1016L Washer	NAS1149F1032P Washer
AN960-1016 Washer	NAS1149F1063P Washer
AN960PD8L Washer	NAS1149DN816J Washer
AN960PD416L Washer	NAS1149D0416J Washer
AN960PD516L Washer	NAS1149D0516J Washer
AN960PD616L Washer	NAS1149D0616J Washer
AVDEL 016__ -__ Rivet	B204-__ Rivet
B270-6 Sealant	A701-11 Tape
CCR244SS-3-02 Rivet	B204-5 Rivet
MS26574-__ Circuit breaker	B297-__ Circuit breaker, except B297-25 and B297-120
MS3320-20 Circuit breaker	B297-120 Circuit breaker
LW-18959-150-25 Clamp	B444-1 Clamp
LW-18959-163-25 Clamp	B444-2 Clamp
LW-18959-175-25 Clamp	B444-3 Clamp
MS20604ML4W1 Rivet	MS20604M4W1 Rivet per NASM20604
MS21042L3 thru L6 Nut	D210-3 thru -6 Nut*
MS21209__ Insert	MS21209__ L or NAS1130__ Insert
MS21919__ Clamp	AS21919__ Clamp
MS24665 CAD plated steel cotter pin	MS24665 CRES cotter pin per NASM24665
MS27039C080__ Screw	B526-6 or -8 Screw and B527-08 Washer per R22 MM § 23-86. Except where noted.
MS27151-__ Palnut	B330-__ Palnut
NAS1067 Nutplate	MS21086 Nutplate per NASM21086
NAS1068A__ Nutplate	MS21075L__ E Nutplate per NASM21075
NAS1291-04 thru -08 Nut	MS21042 Nut per NASM21042
NAS1291-3 thru -10 Nut	D210-3 thru -10 Nut*
NAS1303 thru NAS1320 Bolt, except 1307 Bolt	NAS6603 thru NAS6620** Bolt, except 6607 Bolt
NAS1919B0__ SO__ Rivet	NAS9301B-__ -O__ Rivet
NAS1921B0__ SO__ Rivet	NAS9302B-__ -O__ Rivet
NAS428-__ -__ Bolt	NAS428-__ A__ Bolt
NAS487 Instrument nut	MS33737 Instrument nut per NASM33737
NAS6605-31 Bolt	B660-2 Bolt
NAS679A__ Nut	NAS1291-__ Nut
NAS679C__ M Nut	NAS1291C__ M Nut
NAS696 Nutplate	MS21071 Nutplate per NASM21071
NAS697 Nutplate	MS21069 & MS21070 Nutplate per NASM21069 & NASM21070
NAS698 Nutplate	MS21073 Nutplate per NASM21073

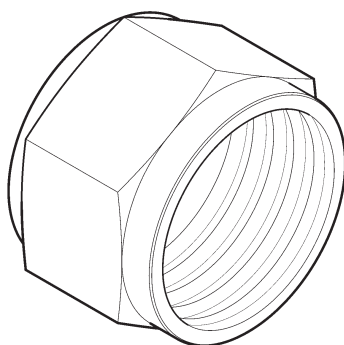
* One-way interchangeability, only D210 nut shall be used for listed sizes.

** The following bolts must be NAS1300 series only: NAS1304-17 and NAS1305-35.

A880 FLARED TUBE COMPONENTS

A. Nuts – Flare

Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-102	AN818-2D, AN818-2W, AS5175W02	AL	1/8-inch
-103	AN818-3D, AN818-3W, AS5175W03	AL	3/16-inch
-104	AN818-4D, AN818-4W, AS5175W04	AL	1/4-inch
-105	AN818-5D, AN818-5W, AS5175W05	AL	5/16-inch
-106	AN818-6D, AN818-6W, AS5175W06	AL	3/8-inch
-108	AN818-8D, AN818-8W, AS5175W08	AL	1/2-inch
-110	AN818-10D, AN818-10W, AS5175W10	AL	5/8-inch
-202	AN818-2J, AS5175J02	CRES	1/8-inch
-203	AN818-3J, AS5175J03	CRES	3/16-inch
-204	AN818-4J, AS5175J04	CRES	1/4-inch
-205	AN818-5J, AS5175J05	CRES	5/16-inch
-206	AN818-6J, AS5175J06	CRES	3/8-inch
-208	AN818-8J, AS5175J08	CRES	1/2-inch
-210	AN818-10J, AS5175J10	CRES	5/8-inch



CHAPTER 25

FURNISHINGS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
25-1	Interior Furnishings	25.0
25-5	Interior Furnishings	25.4
25-9	Seat Support and Floor Installation	25.8
25-13	Seat Compartment Covers	25.12
25-13B	Fire Extinguisher (Halotron BrX) Installation – Co-pilot’s Side, Inboard	25.13A
25-15	Fire Extinguisher (Halon) Installation – Co-pilot’s Side, Outboard	25.14
25-17	Fire Extinguisher (Halon) Installation – Co-pilot’s Side, Inboard	25.16
25-17B	Fire Extinguisher (Halon) Installation – Console-Mounted	25.17A
25-19	Kannad ELT Installation	25.18
25-23	Kannad ELT Installation	25.22
25-25	Pointer ELT Installation	25.24

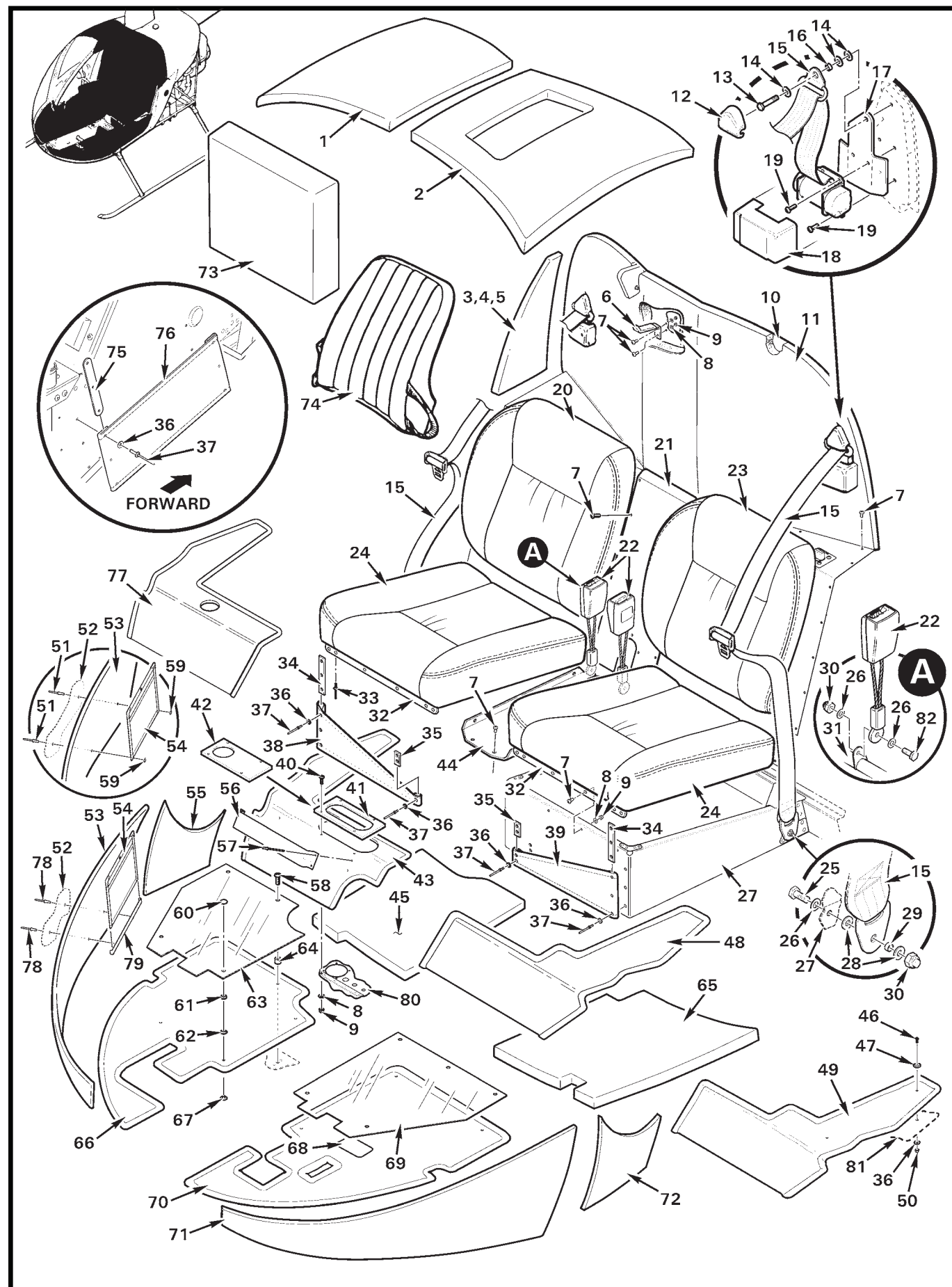


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-13-1	SEAT COMPARTMENT COVERS			
	A748-4	Cover Assembly – Seat Compartment Cover (RH, without cabin heater. Used on Mariner.)	X	1
	A748-1	Cover Assembly – Baggage Compartment (RH, Ref; with cabin heater, not shown. See Figure 21-9.)		
	2 B340-4	Nut	X	11
	3 NAS1149FN832P	Washer	X	11
	4 MS27039C0806	Screw	X	12
5	A748-6	Cover Assembly – Seat Compartment Cover (LH, used on Mariner)	X	1
NOTES				

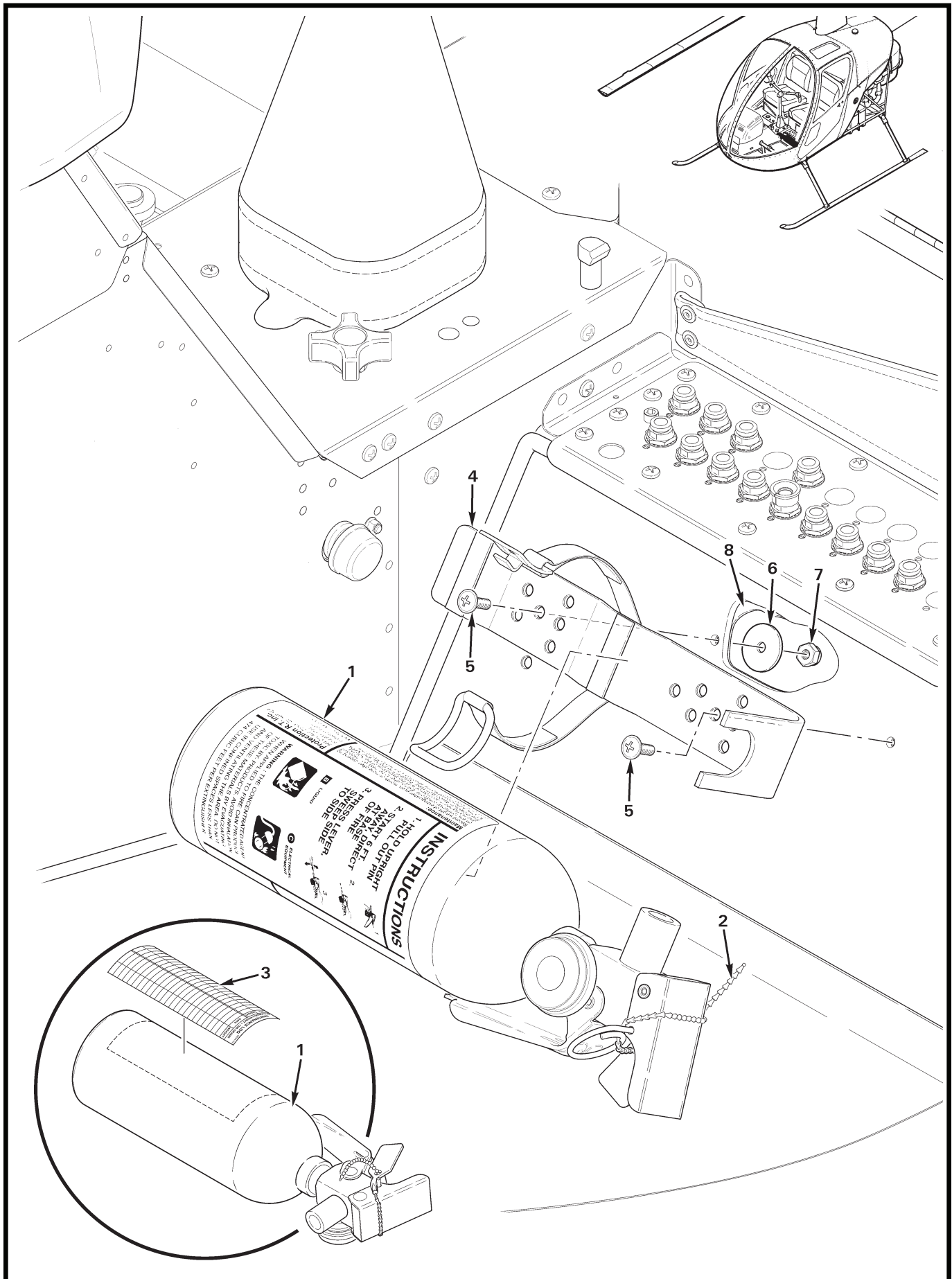


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-13B-1		FIRE EXTINGUISHER (HALOTRON BRX) INSTALLATION – CO-PILOT’S SIDE, INBOARD		
	B381-4	Fire Extinguisher Assembly (includes M-900 Fire Extinguisher and items 2 & 3)	X	1
	M-900	Fire Extinguisher (Halotron BrX; 31-oz. capacity)	O	1
	2 RT-A400-CT	Safety Cable	X	1
	3 G654-23	Decal – Maintenance Log	X	1
	4 B381-5	Bracket	X	1
	5 AN525-10R9	Screw	X	2
	6 AN970-3	Washer	X	2
	7 D210-3	Nut	X	2
	8 A350-1	Panel (LH, ref)		
NOTES				

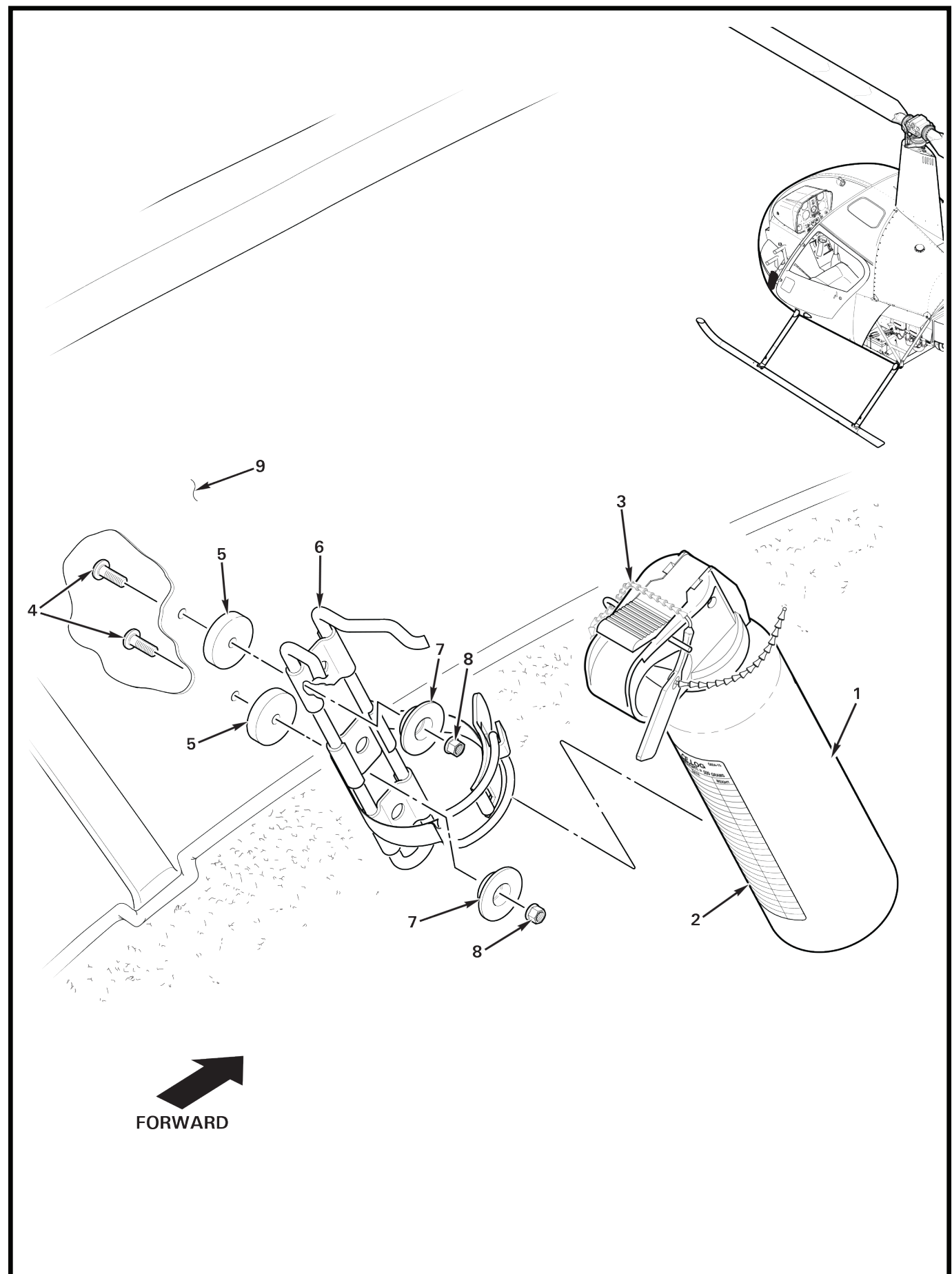


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-15-1		FIRE EXTINGUISHER (HALON) INSTALLATION – CO-PILOT’S SIDE, OUTBOARD		
	B381-1	Fire Extinguisher Assembly (includes RT-A400 Fire Extinguisher and items 2 & 3)	X	1
	RT-A400	Fire Extinguisher (Halon; 14-oz. capacity)	O	1
	2 G654-15	Decal – Maintenance Log	X	1
	3 RT-A400-CT	Safety Cable	X	1
	4 AN526C832R_	Screw (select screw length to provide 0.00–0.06 in. exposed thread)	X	2
	5 C130-54	Spacer	X	2
	6 B381-3	Bracket	X	1
	7 G220-1	Retainer	X	2
	8 MS21042L08	Nut	X	2
	9 A272-1	Chin (Ref)		
NOTES				

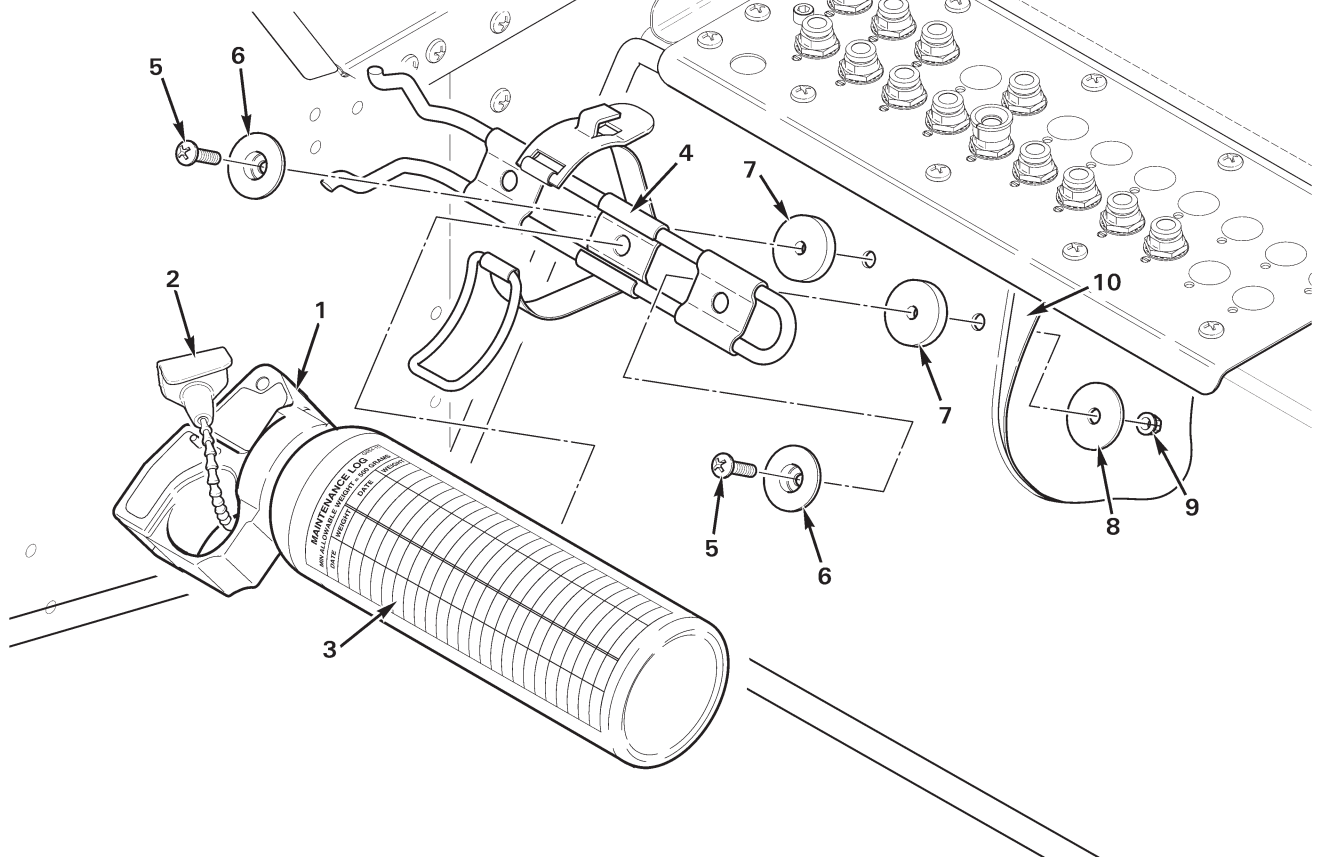
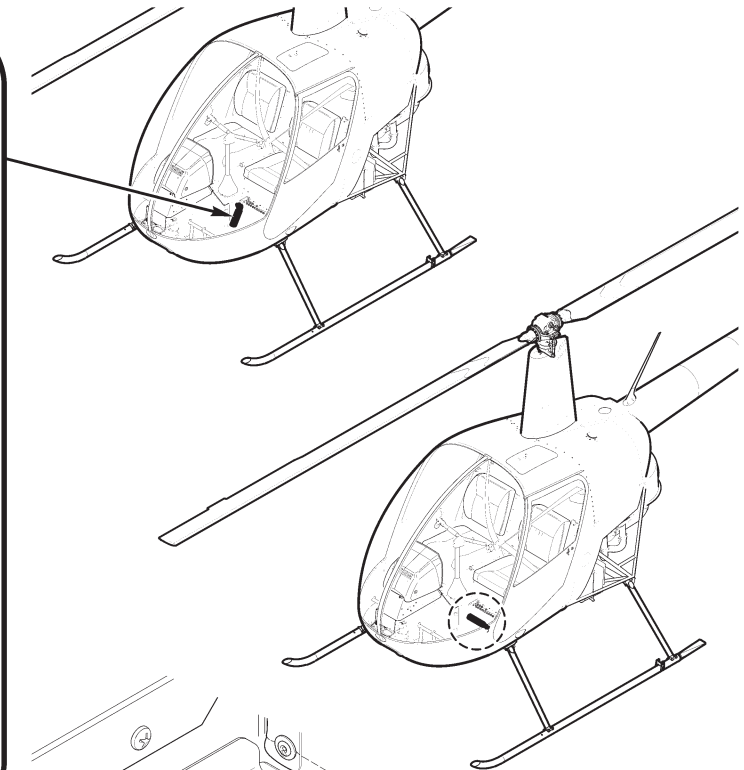
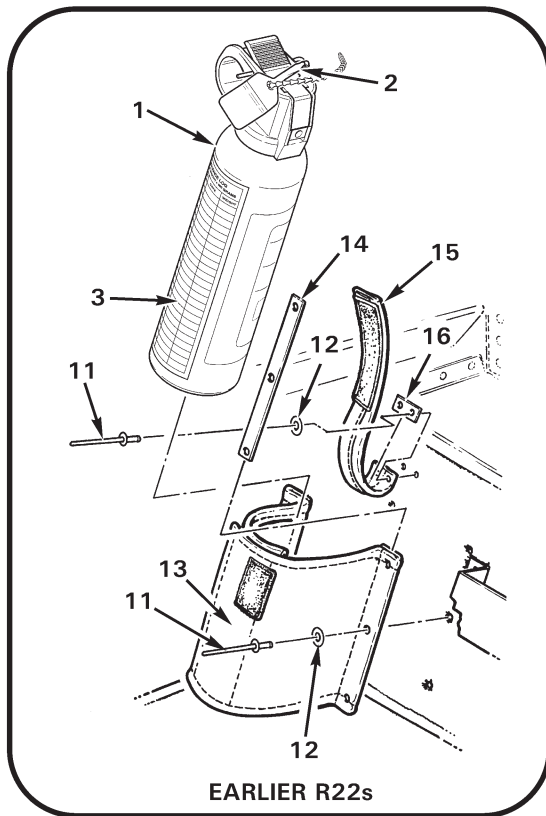


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-17-1		FIRE EXTINGUISHER (HALON) INSTALLATION – CO-PILOT’S SIDE, INBOARD		
	B381-1	Fire Extinguisher Assembly (includes RT-A400 Fire Extinguisher and items 2 & 3)	X	1
	RT-A400	Fire Extinguisher (Halon; 14-oz. capacity)	O	1
	2 RT-A400-CT	Safety Cable	X	1
	3 G654-15	Decal – Maintenance Log	X	1
	4 B381-3	Bracket	X	1
	5 MS27039C0810	Screw	X	2
	6 G220-1	Retainer	X	2
	7 C130-54	Spacer	X	2
	8 AN970-3	Washer	X	2
	9 MS21042L08	Nut	X	2
	10 A350-1	Panel (LH, ref)		
	11 B204-3	Rivet	X	8
	12 NAS1149FN616P	Washer	X	8
	13 B219-3BL	Pocket Assembly (blue, 2-piece)	O	1
	B219-3GR	Pocket Assembly (gray, 2-piece)	O	1
	B219-3TN	Pocket Assembly (tan, 2-piece)	O	1
	14 A913-1	Strip	X	2
	15 B219-4BL	Strap Assembly (blue)	O	1
	B219-4GR	Strap Assembly (gray)	O	1
	B219-4TN	Strap Assembly (tan)	O	1
	16 A913-2	Strip	X	1
NOTES				

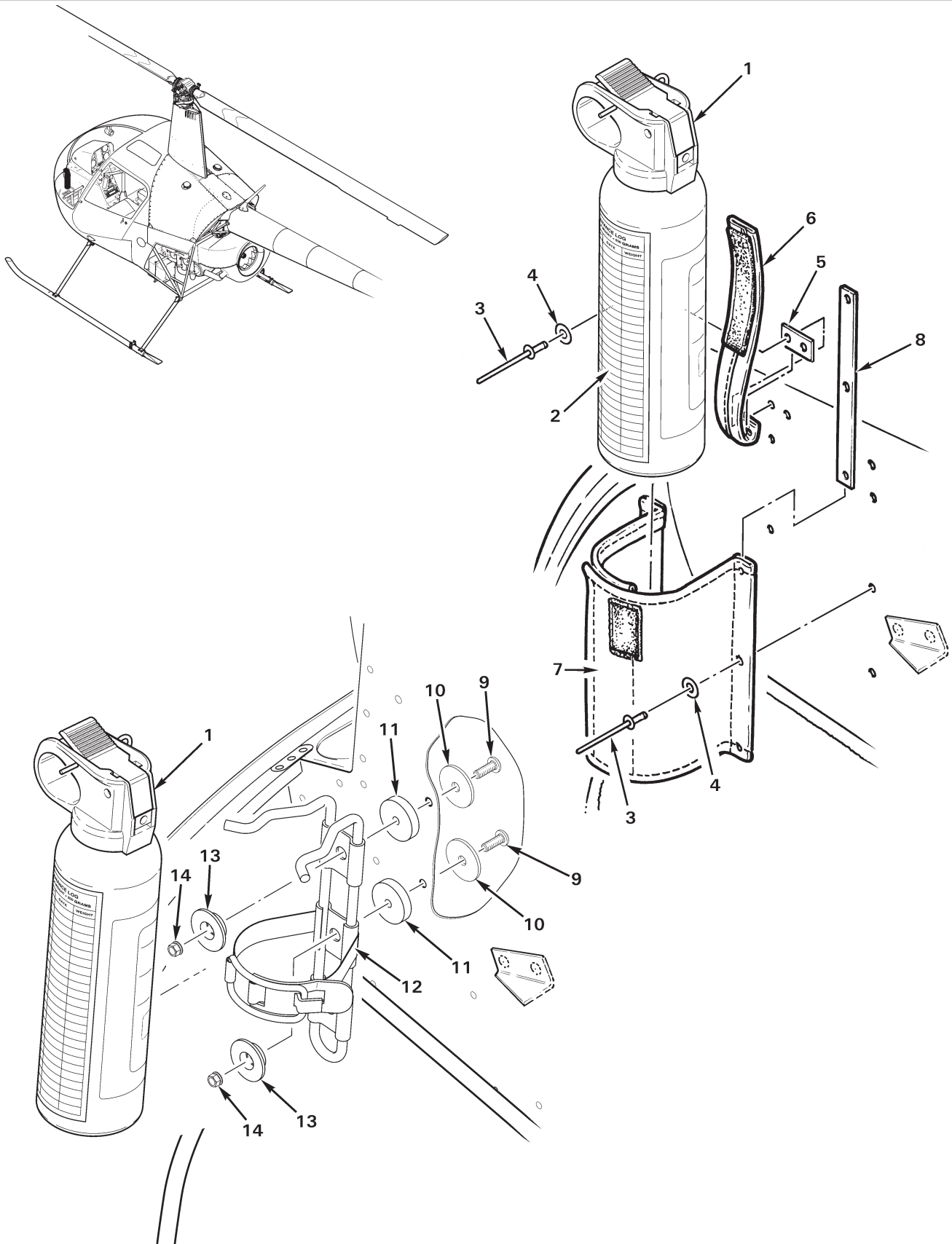
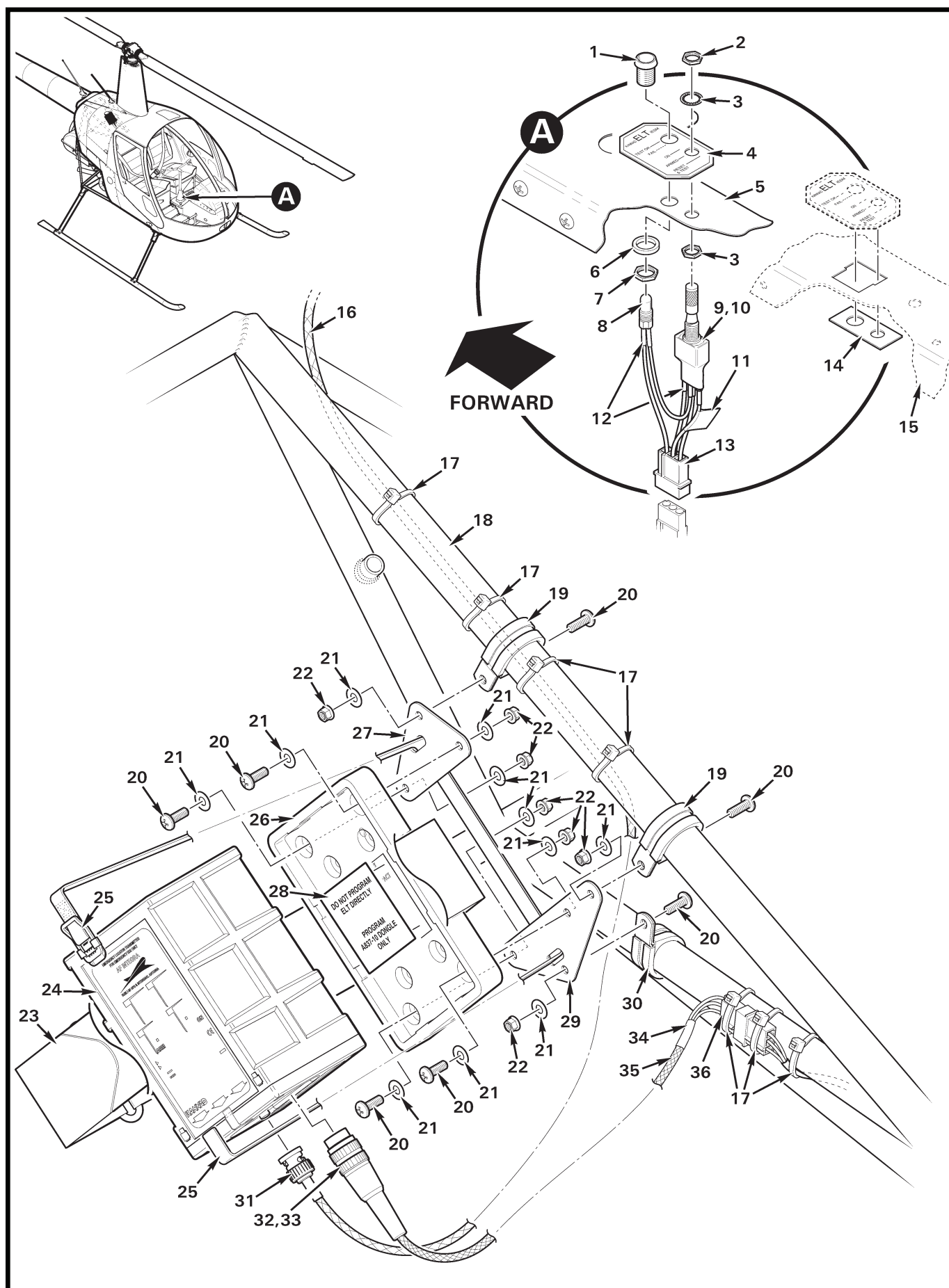


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-17B-1		FIRE EXTINGUISHER (HALON) INSTALLATION – CONSOLE-MOUNTED*		
	B381-1	Fire Extinguisher Assembly (Ref; includes RT-A400 Fire Extinguisher and item 2)		
	RT-A400	Fire Extinguisher (Halon; 14-oz. capacity)		
	2 G654-15	Decal — Maintenance Log (Ref)		
	3 B204-3	Rivet (Ref)		
	4 NAS1149FN616P	Washer (Ref)		
	5 A913-2	Strip (Ref)		
	6 B219-4	Strap Assembly (Ref)		
	7 B219-3	Pocket Assembly (Ref; 2-piece)		
	8 A913-1	Strip (Ref)		
	9 MS27039C0808	Screw (Ref)		
	10 AN970-3	Washer (Ref)		
	11 C130-54	Spacer (Ref)		
	12 B381-3	Bracket (Ref)		
	13 G220-1	Retainer (Ref)		
	14 MS21042L08	Nut (Ref)		
NOTES * Fire extinguisher removed from console-mounted location per R22 Service Bulletin SB-118 current revision. Order KI-281-1 to relocate fire extinguisher to co-pilot's side, inboard or outboard location, as desired.				



REVISION LOG

SEP 2026

The R22 Illustrated Parts Catalog (IPC) list of effective pages and effective dates are given below. If a previously issued page is not listed below, it is no longer an effective page and must be discarded. The issue or revision date is in bold at the top of each revision log page.

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vi	SEP 2026	6.14	MAY 2021	10.2	SEP 2014
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x	MAY 2021	6.18	MAY 2021	10.6	FEB 2017
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		8.0	SEP 2014	11.4	MAY 2021
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6.0	SEP 2014	8.2	SEP 2014	11.6	FEB 2017
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6.3	SEP 2014	9.0	SEP 2014		
6.4	SEP 2014	9.1	SEP 2014	12.i	FEB 2017
6.5	SEP 2014	9.2	SEP 2014	12.0	FEB 2017
6.6	SEP 2014	9.3	SEP 2014	12.1	FEB 2017
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REVISION LOG

SEP 2026

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		25.17B.....	SEP 2026	28.24.....	MAY 2021
21.i.....	NOV 2024	25.18.....	MAY 2021	28.25.....	MAY 2021
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21.1.....	NOV 2024	25.20.....	FEB 2017	28.27.....	MAY 2021
21.2.....	NOV 2024	25.21.....	FEB 2017	28.28.....	MAY 2021
21.3.....	FEB 2017	25.22.....	FEB 2017	28.29.....	MAY 2021
21.4.....	FEB 2017	25.23.....	FEB 2017	28.30.....	MAY 2021
21.5.....	SEP 2014	25.24.....	FEB 2017		
21.6.....	SEP 2014	25.25.....	FEB 2017	32.i.....	FEB 2017
21.7.....	SEP 2014	25.26.....	FEB 2017	32.0.....	FEB 2017
21.8.....	SEP 2014			32.1.....	FEB 2017
21.9.....	FEB 2017	28.i.....	MAY 2021	32.2.....	FEB 2017
21.10.....	FEB 2017	28.0.....	MAY 2021	32.3.....	FEB 2017
		28.1.....	MAY 2021	32.4.....	FEB 2017
25.i.....	SEP 2026	28.2.....	MAY 2021	32.5.....	FEB 2017
25.0.....	FEB 2017	28.3.....	FEB 2017	32.6.....	FEB 2017
25.1.....	FEB 2017	28.4.....	FEB 2017	32.7.....	FEB 2017
25.2.....	FEB 2017	28.5.....	MAY 2021	32.8.....	FEB 2017
25.3.....	FEB 2017	28.6.....	MAY 2021	32.9.....	FEB 2017
25.4.....	FEB 2017	28.7.....	MAY 2021	32.10.....	FEB 2017
25.5.....	FEB 2017	28.8.....	MAY 2021		
25.6.....	FEB 2017	28.9.....	MAY 2021	33.i.....	SEP 2014
25.7.....	FEB 2017	28.10.....	MAY 2021	33.0.....	SEP 2014
25.8.....	FEB 2017	28.11.....	MAY 2021	33.1.....	SEP 2014
25.9.....	FEB 2017	28.12.....	MAY 2021	33.2.....	SEP 2014
25.10.....	FEB 2017	28.13.....	MAY 2021	33.3.....	SEP 2014
25.11.....	FEB 2017	28.14.....	MAY 2021	33.4.....	SEP 2014
25.12.....	FEB 2017	28.15.....	MAY 2021	33.5.....	JUN 2024

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33.6	JUN 2024	53.12	SEP 2014	63.i	SEP 2014
33.7	JUN 2024	53.13	SEP 2014	63.0	SEP 2014
33.8	JUN 2024	53.14	SEP 2014	63.1	MAY 2021
33.9	FEB 2017	53.15	JUN 2024	63.2	MAY 2021
33.10	FEB 2017	53.16	JUN 2024	63.3	MAY 2021
33.11	NOV 2024	53.17	JUN 2024	63.4	MAY 2021
33.12	NOV 2024	53.18	JUN 2024	63.5	FEB 2017
33.13	NOV 2024	53.19	FEB 2017	63.6	FEB 2017
33.14	NOV 2024	53.20	FEB 2017	63.7	FEB 2017
33.15	SEP 2014	53.21	FEB 2017	63.8	FEB 2017
33.16	SEP 2014	53.22	FEB 2017	63.9	MAY 2021
		53.23	JUN 2024	63.10	MAY 2021
52.i	SEP 2014	53.24	JUN 2024	63.11	MAY 2021
52.0	SEP 2014	53.25	JUN 2024	63.12	MAY 2021
52.1	FEB 2017	53.26	JUN 2024	63.13	MAY 2021
52.2	FEB 2017	53.27	JUN 2024	63.14	MAY 2021
52.3	SEP 2014	53.28	JUN 2024	63.15	FEB 2017
52.4	SEP 2014	53.29	JUN 2024	63.16	FEB 2017
52.5	SEP 2014	53.30	JUN 2024	63.17	MAY 2021
52.6	SEP 2014	53.31	JUN 2024	63.18	MAY 2021
52.7	SEP 2014	53.32	JUN 2024	63.19	FEB 2017
52.8	SEP 2014	53.33	JUN 2024	63.20	FEB 2017
		53.34	JUN 2024		
53.i	JUN 2024	53.35	JUN 2024	64.i	FEB 2017
53.0	JUN 2024	53.36	JUN 2024	64.0	FEB 2017
53.1	JUN 2024			64.1	FEB 2017
53.2	JUN 2024	62.i	FEB 2017	64.2	FEB 2017
53.3	JUN 2024	62.0	FEB 2017	64.3	FEB 2017
53.4	JUN 2024	62.1	FEB 2017	64.4	FEB 2017
53.5	SEP 2014	62.2	FEB 2017		
53.6	SEP 2014	62.3	FEB 2017	65.i	FEB 2017
53.7	FEB 2017	62.4	FEB 2017	65.0	FEB 2017
53.8	FEB 2017	62.5	MAR 2016	65.1	FEB 2017
53.9	FEB 2017	62.6	MAR 2016	65.2	FEB 2017
53.10	FEB 2017	62.7	MAR 2016	65.3	SEP 2014
53.11	SEP 2014	62.8	MAR 2016		

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65.5	FEB 2017	67.26	SEP 2014	71.15	NOV 2024
65.6	FEB 2017	67.27	MAY 2021	71.16	NOV 2024
65.7	MAY 2021	67.28	MAY 2021	71.17	NOV 2024
65.8	MAY 2021	67.29	MAY 2021	71.18	NOV 2024
65.9	FEB 2017	67.30	MAY 2021	71.19	NOV 2024
65.10	FEB 2017	67.31	MAY 2021	71.19A	NOV 2024
65.11	MAY 2021	67.32	MAY 2021	71.19B	NOV 2024
65.12	MAY 2021	67.33	MAY 2021	71.20	NOV 2024
		67.34	MAY 2021	71.21	NOV 2024
67.i	FEB 2017	67.35	MAY 2021	71.21A	NOV 2024
67.0	FEB 2017	67.36	MAY 2021	71.21B	NOV 2024
67.1	SEP 2014	67.37	SEP 2014	71.21C	NOV 2024
67.2	SEP 2014	67.38	SEP 2014	71.21D	NOV 2024
67.3	JUN 2024	67.39	SEP 2014	71.22	NOV 2024
67.4	JUN 2024	67.40	SEP 2014	71.23	FEB 2017
67.5	SEP 2014	67.41	FEB 2017	71.24	FEB 2017
67.6	SEP 2014	67.42	FEB 2017	71.25	SEP 2014
67.7	SEP 2014			71.26	SEP 2014
67.8	SEP 2014	71.i	NOV 2024	71.27	SEP 2014
67.9	SEP 2014	71.0	NOV 2024	71.28	SEP 2014
67.10	SEP 2014	71.1	FEB 2017	71.29	NOV 2024
67.11	FEB 2017	71.2	FEB 2017	71.30	NOV 2024
67.12	FEB 2017	71.3	NOV 2024	71.31	NOV 2024
67.13	JUN 2024	71.3A	NOV 2024	71.32	NOV 2024
67.14	JUN 2024	71.3B	NOV 2024		
67.15	JUN 2024	71.4	NOV 2024	76.i	FEB 2017
67.16	JUN 2024	71.5	FEB 2017	76.0	FEB 2017
67.17	JUN 2024	71.6	FEB 2017	76.1	FEB 2017
67.18	JUN 2024	71.7	SEP 2014	76.2	FEB 2017
67.19	FEB 2017	71.8	SEP 2014	76.3	MAY 2021
67.20	FEB 2017	71.9	FEB 2017	76.4	MAY 2021
67.21	FEB 2017	71.10	FEB 2017	76.5	FEB 2017
67.22	FEB 2017	71.11	SEP 2014	76.6	FEB 2017
67.23	FEB 2017	71.12	SEP 2014	76.7	FEB 2017
67.24	FEB 2017	71.13	FEB 2017	76.8	FEB 2017

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76.9	MAY 2021			95.26	FEB 2017
76.10	MAY 2021	95.i	MAY 2021	95.27	FEB 2017
76.11	SEP 2014	95.0	MAY 2021	95.28	FEB 2017
76.12	SEP 2014	95.1	MAY 2021	95.29	FEB 2017
76.13	FEB 2017	95.2	MAY 2021	95.30	FEB 2017
76.14	FEB 2017	95.3	MAY 2021	95.31	FEB 2017
76.15	SEP 2014	95.4	MAY 2021	95.32	FEB 2017
76.16	SEP 2014	95.5	MAY 2021	95.33	FEB 2017
76.17	FEB 2017	95.6	MAY 2021	95.34	FEB 2017
76.18	FEB 2017	95.7	MAY 2021	95.35	FEB 2017
		95.8	MAY 2021	95.36	FEB 2017
79.i	FEB 2017	95.9	MAY 2021	95.37	FEB 2017
79.0	FEB 2017	95.10	MAY 2021	95.38	FEB 2017
79.1	MAY 2021	95.11	MAY 2021	95.39	FEB 2017
79.2	MAY 2021	95.12	MAY 2021	95.40	FEB 2017
79.3	FEB 2017	95.13	MAY 2021	95.41	FEB 2017
79.4	FEB 2017	95.14	MAY 2021	95.42	FEB 2017
79.5	FEB 2017	95.15	MAY 2021	95.43	FEB 2017
79.6	FEB 2017	95.16	MAY 2021	95.44	FEB 2017
79.7	MAY 2021	95.17	MAY 2021	95.45	FEB 2017
79.8	MAY 2021	95.18	MAY 2021	95.46	FEB 2017
		95.18A	MAY 2021	95.47	FEB 2017
90.i	SEP 2014	95.18B	MAY 2021	95.48	FEB 2017
90.0	SEP 2014	95.18C	MAY 2021	95.49	MAY 2021
90.1	SEP 2014	95.18D	MAY 2021	95.50	MAY 2021
90.2	SEP 2014	95.18E	MAY 2021	95.51	MAY 2021
90.3	SEP 2014	95.18F	MAY 2021	95.52	MAY 2021
90.4	SEP 2014	95.18G	MAY 2021	95.53	FEB 2017
90.5	SEP 2014	95.18H	MAY 2021	95.54	FEB 2017
90.6	SEP 2014	95.19	FEB 2017	95.55	FEB 2017
90.7	SEP 2014	95.20	FEB 2017	95.56	FEB 2017
90.8	SEP 2014	95.21	FEB 2017	95.57	FEB 2017
90.9	SEP 2014	95.22	FEB 2017	95.58	FEB 2017
90.10	SEP 2014	95.23	FEB 2017	95.59	FEB 2017
90.11	MAY 2021	95.24	FEB 2017	95.60	FEB 2017
90.12	MAY 2021	95.25	FEB 2017	95.61	FEB 2017

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95.63	FEB 2017	96.26	FEB 2017	97.21	MAY 2021
95.64	FEB 2017	96.27	FEB 2017	97.22	MAY 2021
95.65	FEB 2017	96.28	FEB 2017	97.23	MAY 2021
95.66	FEB 2017	96.29	FEB 2017	97.24	MAY 2021
		96.30	FEB 2017	97.25	MAY 2021
96.i	NOV 2024	96.31	FEB 2017	97.26	MAY 2021
96.0	NOV 2024	96.32	FEB 2017	97.27	NOV 2024
96.1	MAY 2021	96.33	FEB 2017	97.28	NOV 2024
96.2	MAY 2021	96.34	FEB 2017	97.29	NOV 2024
96.3	MAY 2021	96.35	NOV 2024	97.30	NOV 2024
96.4	MAY 2021	96.36	NOV 2024		
96.5	MAY 2021	96.37	NOV 2024	99.i	MAY 2021
96.6	MAY 2021	96.38	NOV 2024	99.ii	MAY 2021
96.7	MAY 2021			99.1	MAY 2021
96.8	MAY 2021	97.i	NOV 2024	99.2	MAY 2021
96.9	FEB 2017	97.0	NOV 2024	99.3	MAY 2021
96.10	FEB 2017	97.1	MAY 2021	99.4	MAY 2021
96.11	MAY 2021	97.2	MAY 2021	99.5	MAY 2021
96.12	MAY 2021	97.3	SEP 2014	99.6	MAY 2021
96.13	FEB 2017	97.4	SEP 2014	99.7	MAY 2021
96.14	FEB 2017	97.5	SEP 2014	99.8	MAY 2021
96.15	FEB 2017	97.6	SEP 2014	99.9	MAY 2021
96.16	FEB 2017	97.7	SEP 2014	99.10	MAY 2021
96.17	FEB 2017	97.8	SEP 2014	99.11	MAY 2021
96.18	FEB 2017	97.9	FEB 2017	99.12	MAY 2021
96.19	FEB 2017	97.10	FEB 2017		
96.20	FEB 2017	97.11	SEP 2014	100.i	MAY 2021
96.21	FEB 2017	97.12	SEP 2014	100.ii	MAY 2021
96.22	FEB 2017	97.13	SEP 2014	100.1	SEP 2026
96.23	MAY 2021	97.14	SEP 2014	100.2	SEP 2026
96.23A	MAY 2021	97.15	SEP 2014	100.3	SEP 2026
96.23B	MAY 2021	97.16	SEP 2014	100.4	SEP 2026
96.23C	MAY 2021	97.17	SEP 2014	100.5	SEP 2026
96.23D	MAY 2021	97.18	SEP 2014	100.6	SEP 2026
96.24	MAY 2021	97.19	MAY 2021		