

ROBINSON HELICOPTER COMPANY

R44 ILLUSTRATED PARTS CATALOG

RTR 460 VOLUME II

Production Certificate Number 424WE

Type Certificate Number H11NM



Robinson Helicopter Company
2901 Airport Drive
Torrance, California 90505-6115
United States of America

Phone: (310) 539-0508
Fax: (310) 539-5198
Web: www.robinsonheli.com

OFFICE HOURS

Monday through Friday, 7:30 a.m. to 4:30 p.m., Pacific Time.
Lunch hour is 11:30 a.m. to 12:30 p.m.

HOLIDAYS

Please visit www.robinsonheli.com for a list of holidays and company shutdowns.

CUSTOMER SUPPORT AND SPARES ORDERS

Please visit www.robinsonheli.com for Customer Support contact information. Procure parts from any R44 Dealer or Service Center, or order directly from RHC Customer Service via email, fax, or phone.

PUBLICATIONS

Viewing RHC Maintenance Manuals (MMs) and Illustrated Parts Catalogs (IPCs) online at www.robinsonheli.com 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.

SUBSCRIPTION ORDER AND RENEWAL FORMS

Subscription order and renewal forms are located at www.robinsonheli.com.

WARRANTY INFORMATION

Helicopter and parts warranty information is located at www.robinsonheli.com.

CHAPTER LIST

	Introduction
Chapter 6	Dimensions and Descriptions
Chapter 8	Weight and Balance
Chapter 9	Ground Handling
Chapter 10	Parking and Storage
Chapter 11	Placards and Markings
Chapter 12	Servicing
Chapter 18	Track and Balance
Chapter 21	Environment Control
Chapter 22	Autopilot
Chapter 25	Furnishings
Chapter 28	Fuel System
Chapter 29	Hydraulics
Chapter 32	Landing Gear
Chapter 33	Lights
Chapter 52	Doors and Windows
Chapter 53	Fuselage
Chapter 62	Main Rotor
Chapter 63	Main Rotor Drive System
Chapter 64	Tail Rotor
Chapter 65	Tail Rotor Drive System
Chapter 67	Flight Controls
Chapter 71	Powerplant
Chapter 76	Engine Controls
Chapter 79	Engine Oil System
Chapter 90	Police Version
Chapter 92	E.N.G. Version
Chapter 94	Cadet Version
Chapter 95	Instrument System
Chapter 96	Electrical System
Chapter 97	Avionics
Chapter 99	Special Tools
Chapter 100	Revision Log

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TECHNICAL PUBLICATIONS**RECOMMENDED CHANGE REPORT**

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:

Email: techpubs@robinsonheli.com
Phone: (310) 539-0508
Fax: (310) 539-5198

Robinson Helicopter Company
Attention: Technical Publications
2901 Airport Drive
Torrance, CA 90505-6115
United States of America

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

COMMENTS:

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CATALOG FEATURES

INTRODUCTION

The Illustrated Parts Catalog (IPC) is used in conjunction with the R44 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 R44 helicopter. RHC uses a modified Air Transport Association (ATA) chapter structure to organize the various systems of the R44 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 www.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.

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CATALOG FEATURES (Cont'd)**REVISIONS**

RHC Illustrated Parts Catalogs (IPCs) are available digitally at www.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 is 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 email notification of revisions to IPCs by sending an email to subscriptions@robinsonheli.com with "Subscribe email" in the subject line. Within the email, include name, email address, physical address, and helicopter model(s) of interest.

HOW TO USE THE ILLUSTRATED PARTS CATALOG

The IPCs are available digitally at www.robinsonheli.com, under the Publications tab. Files are available in PDF format. A keyword or part number search may help to 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 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
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 R44 MM § 16-61. 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

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PART INTERCHANGEABILITY (Cont'd)

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
AN960-10L Washer	NAS1149F0332P Washer
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
B0500-022-S Washer	A478-2 Washer
B1000-035-S Washer	A478-3 Washer
B1000-043-S Washer	A478-4 Washer
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 R44 MM § 16-61. 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-__ -0__ Rivet
NAS1921B0__ SO__ Rivet	NAS9302B-__ -0__ Rivet
NAS428-__ -__ Bolt	NAS428-__ A__ Bolt
NAS487 Instrument nut	MS33737 Instrument nut per NASM33737
NAS679A__ Nut	NAS1291-__ Nut
NAS679C__ M Nut	NAS1291C__ M Nut

* 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.

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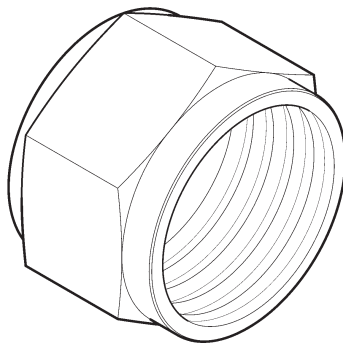
PART INTERCHANGEABILITY (Cont'd)

<u>PART:</u>	<u>INTERCHANGEABLE WITH:</u>
NAS696 Nutplate	MS21071 Nutplate per NASM21071
NAS697 Nutplate	MS21069 & MS21070 Nutplate per NASM21069 & NASM21070
NAS698 Nutplate	MS21073 Nutplate per NASM21073

A880 FLARED TUBE COMPONENTS

A. Nuts – Flare

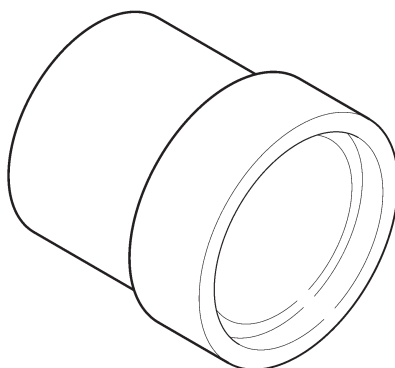
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-102	AN818-2D, AN818-2W, AS5175W02	AL	1/8-inch
-103	AN818-3D, AN818-3W, AS5175W03	AL	3/16-inch
-104	AN818-4D, AN818-4W, AS5175W04	AL	1/4-inch
-105	AN818-5D, AN818-5W, AS5175W05	AL	5/16-inch
-106	AN818-6D, AN818-6W, AS5175W06	AL	3/8-inch
-108	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



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A880 FLARED TUBE COMPONENTS (Cont'd)
B. Sleeves

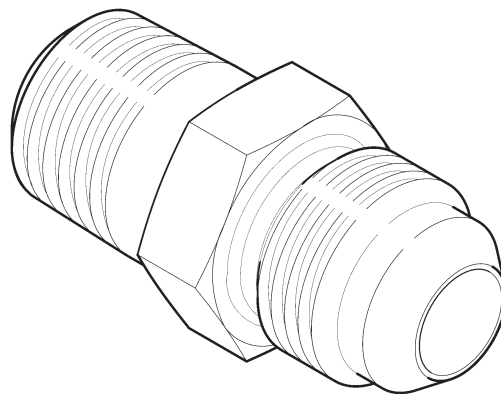
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-302	MS20819-2D, AS3220D02, AS3220W02	AL	1/8-inch
-303	MS20819-3D, AS3220D03, AS3220W03	AL	3/16-inch
-304	MS20819-4D, AS3220D04, AS3220W04	AL	1/4-inch
-305	MS20819-5D, AS3220D05, AS3220W05	AL	5/16-inch
-306	MS20819-6D, AS3220D06, AS3220W06	AL	3/8-inch
-308	MS20819-8D, AS3220D08, AS3220W08	AL	1/2-inch
-310	MS20819-10D, AS3220D10, AS3220W10	AL	5/8-inch
-402	MS20819-2J, AS5176J02	CRES	1/8-inch
-403	MS20819-3J, AS5176J03	CRES	3/16-inch
-404	MS20819-4J, AS5176J04	CRES	1/4-inch
-405	MS20819-5J, AS5176J05	CRES	5/16-inch
-406	MS20819-6J, AS5176J06	CRES	3/8-inch
-408	MS20819-8J, AS5176J08	CRES	1/2-inch
-410	MS20819-10J, AS5176J10	CRES	5/8-inch



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A880 FLARED TUBE COMPONENTS (Cont'd)
C. Adapters – NPT to Flare

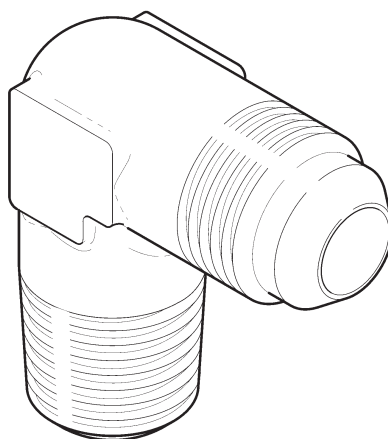
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-502	AN816-2D, AS5194D0202	AL	1/8-inch
-503	AN816-3D, AS5194D0302	AL	3/16-inch
-504	AN816-4D, AS5194D0402	AL	1/4-inch
-505	AN816-5D, AS5194D0502	AL	5/16-inch
-506	AN816-6D, AS5194D0604	AL	3/8-inch
-508	AN816-8D, AS5194D0806	AL	1/2-inch
-510	AN816-10D, AS5194D1008	AL	5/8-inch
-532	AN816-2J, AS5194J0202	CRES	1/8-inch
-533	AN816-3J, AS5194J0302	CRES	3/16-inch
-534	AN816-4J, AS5194J0402	CRES	1/4-inch
-535	AN816-5J, AS5194J0502	CRES	5/16-inch
-536	AN816-6J, AS5194J0604	CRES	3/8-inch
-538	AN816-8J, AS5194J0806	CRES	1/2-inch
-540	AN816-10J, AS5194J1008	CRES	5/8-inch
-562	AN816-2, AS5194-0202	STL	1/8-inch
-563	AN816-3, AS5194-0302	STL	3/16-inch
-564	AN816-4, AS5194-0402	STL	1/4-inch
-565	AN816-5, AS5194-0502	STL	5/16-inch
-566	AN816-6, AS5194-0604	STL	3/8-inch
-568	AN816-8, AS5194-0806	STL	1/2-inch
-570	AN816-10, AS5194-1008	STL	5/8-inch



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A880 FLARED TUBE COMPONENTS (Cont'd)
D. Elbows – 90°, NPT to Flare

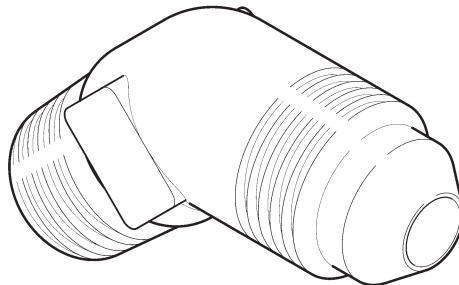
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-602	AN822-2D, MS20822-2D, AS5195W0202	AL	1/8-inch
-603	AN822-3D, MS20822-3D, AS5195W0302	AL	3/16-inch
-604	AN822-4D, MS20822-4D, AS5195W0402	AL	1/4-inch
-605	AN822-5D, MS20822-5D, AS5195W0502	AL	5/16-inch
-606	AN822-6D, MS20822-6D, AS5195W0604	AL	3/8-inch
-608	AN822-8D, MS20822-8D, AS5195W0806	AL	1/2-inch
-610	AN822-10D, MS20822-10D, AS5195W1008	AL	5/8-inch
-632	AN822-2J, MS20822-2J, AS5195J0202	CRES	1/8-inch
-633	AN822-3J, MS20822-3J, AS5195J0302	CRES	3/16-inch
-634	AN822-4J, MS20822-4J, AS5195J0402	CRES	1/4-inch
-635	AN822-5J, MS20822-5J, AS5195J0502	CRES	5/16-inch
-636	AN822-6J, MS20822-6J, AS5195J0604	CRES	3/8-inch
-638	AN822-8J, MS20822-8J, AS5195J0806	CRES	1/2-inch
-640	AN822-10J, MS20822-10J, AS5195J1008	CRES	5/8-inch
-662	AN822-2, MS20822-2, AS5195-0202	STL	1/8-inch
-663	AN822-3, MS20822-3, AS5195-0302	STL	3/16-inch
-664	AN822-4, MS20822-4, AS5195-0402	STL	1/4-inch
-665	AN822-5, MS20822-5, AS5195-0502	STL	5/16-inch
-666	AN822-6, MS20822-6, AS5195-0604	STL	3/8-inch
-668	AN822-8, MS20822-8, AS5195-0806	STL	1/2-inch
-670	AN822-10, MS20822-10, AS5195-1008	STL	5/8-inch



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A880 FLARED TUBE COMPONENTS (Cont'd)
E. Elbows – 45°, NPT to Flare

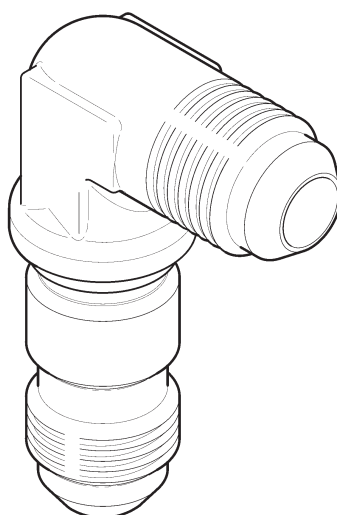
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-702	AN823-2D, MS20823-2D, AS5196W0202	AL	1/8-inch
-703	AN823-3D, MS20823-3D, AS5196W0302	AL	3/16-inch
-704	AN823-4D, MS20823-4D, AS5196W0402	AL	1/4-inch
-705	AN823-5D, MS20823-5D, AS5196W0502	AL	5/16-inch
-706	AN823-6D, MS20823-6D, AS5196W0604	AL	3/8-inch
-708	AN823-8D, MS20823-8D, AS5196W0806	AL	1/2-inch
-710	AN823-10D, MS20823-10D, AS5196W1008	AL	5/8-inch
-732	AN823-2J, MS20823-2J, AS5196J0202	CRES	1/8-inch
-733	AN823-3J, MS20823-3J, AS5196J0302	CRES	3/16-inch
-734	AN823-4J, MS20823-4J, AS5196J0402	CRES	1/4-inch
-735	AN823-5J, MS20823-5J, AS5196J0502	CRES	5/16-inch
-736	AN823-6J, MS20823-6J, AS5196J0604	CRES	3/8-inch
-738	AN823-8J, MS20823-8J, AS5196J0806	CRES	1/2-inch
-740	AN823-10J, MS20823-10J, AS5196J1008	CRES	5/8-inch
-762	AN823-2, MS20823-2, AS5196-0202	STL	1/8-inch
-763	AN823-3, MS20823-3, AS5196-0302	STL	3/16-inch
-764	AN823-4, MS20823-4, AS5196-0402	STL	1/4-inch
-765	AN823-5, MS20823-5, AS5196-0502	STL	5/16-inch
-766	AN823-6, MS20823-6, AS5196-0604	STL	3/8-inch
-768	AN823-8, MS20823-8, AS5196-0806	STL	1/2-inch
-770	AN823-10, MS20823-10, AS5196-1008	STL	5/8-inch



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A880 FLARED TUBE COMPONENTS (Cont'd)
F. Elbows – 90°, Bulkhead Flare to Flare

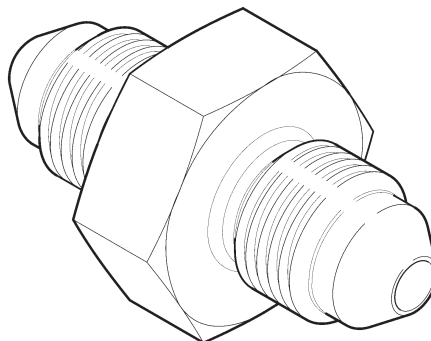
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-802	AN833-2D, AS1038D0202, AS1038W0202	AL	1/8-inch
-803	AN833-3D, AS1038D0303, AS1038W0303	AL	3/16-inch
-804	AN833-4D, AS1038D0404, AS1038W0404	AL	1/4-inch
-805	AN833-5D, AS1038D0505, AS1038W0505	AL	5/16-inch
-806	AN833-6D, AS1038D0606, AS1038W0606	AL	3/8-inch
-808	AN833-8D, AS1038D0808, AS1038W0808	AL	1/2-inch
-810	AN833-10D, AS1038D1010, AS1038W1010	AL	5/8-inch
-832	AN833-2J, AS1038J0202	CRES	1/8-inch
-833	AN833-3J, AS1038J0303	CRES	3/16-inch
-834	AN833-4J, AS1038J0404	CRES	1/4-inch
-835	AN833-5J, AS1038J0505	CRES	5/16-inch
-836	AN833-6J, AS1038J0606	CRES	3/8-inch
-838	AN833-8J, AS1038J0808	CRES	1/2-inch
-840	AN833-10J, AS1038J1010	CRES	5/8-inch
-862	AN833-2, AS1038-0202	STL	1/8-inch
-863	AN833-3, AS1038-0303	STL	3/16-inch
-864	AN833-4, AS1038-0404	STL	1/4-inch
-865	AN833-5, AS1038-0505	STL	5/16-inch
-866	AN833-6, AS1038-0606	STL	3/8-inch
-868	AN833-8, AS1038-0808	STL	1/2-inch
-870	AN833-10, AS1038-1010	STL	5/8-inch



Continues

A880 FLARED TUBE COMPONENTS (Cont'd)
G. Unions – Flare to Flare

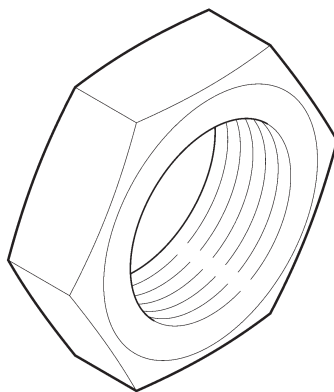
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-902	AN815-2D, AS5174D0202, AS5174W0202	AL	1/8-inch
-903	AN815-3D, AS5174D0303, AS5174W0303	AL	3/16-inch
-904	AN815-4D, AS5174D0404, AS5174W0404	AL	1/4-inch
-905	AN815-5D, AS5174D0505, AS5174W0505	AL	5/16-inch
-906	AN815-6D, AS5174D0606, AS5174W0606	AL	3/8-inch
-908	AN815-8D, AS5174D0808, AS5174W0808	AL	1/2-inch
-910	AN815-10D, AS5174D1010, AS5174W1010	AL	5/8-inch
-932	AN815-2J, AS5174J0202	CRES	1/8-inch
-933	AN815-3J, AS5174J0303	CRES	3/16-inch
-934	AN815-4J, AS5174J0404	CRES	1/4-inch
-935	AN815-5J, AS5174J0505	CRES	5/16-inch
-936	AN815-6J, AS5174J0606	CRES	3/8-inch
-938	AN815-8J, AS5174J0808	CRES	1/2-inch
-940	AN815-10J, AS5174J1010	CRES	5/8-inch
-962	AN815-2, AS5174-0202	STL	1/8-inch
-963	AN815-3, AS5174-0303	STL	3/16-inch
-964	AN815-4, AS5174-0404	STL	1/4-inch
-965	AN815-5, AS5174-0505	STL	5/16-inch
-966	AN815-6, AS5174-0606	STL	3/8-inch
-968	AN815-8, AS5174-0808	STL	1/2-inch
-970	AN815-10, AS5174-1010	STL	5/8-inch



Continues

A880 FLARED TUBE COMPONENTS (Cont'd)
H. Nuts – Hex

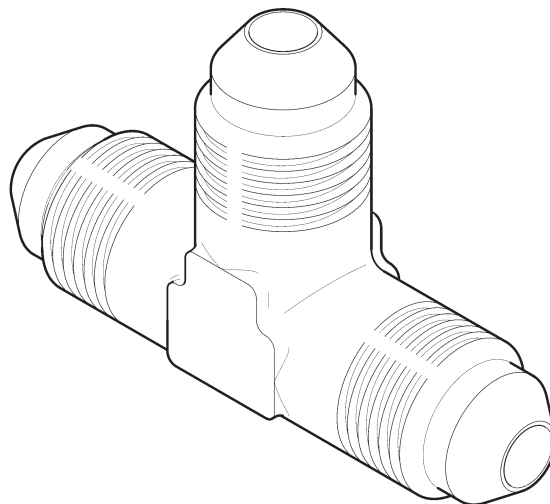
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-1002	AN924-2D, AN924-2W, AS5178W02	AL	1/8-inch
-1003	AN924-3D, AN924-3W, AS5178W03	AL	3/16-inch
-1004	AN924-4D, AN924-4W, AS5178W04	AL	1/4-inch
-1005	AN924-5D, AN924-5W, AS5178W05	AL	5/16-inch
-1006	AN924-6D, AN924-6W, AS5178W06	AL	3/8-inch
-1008	AN924-8D, AN924-8W, AS5178W08	AL	1/2-inch
-1010	AN924-10D, AN924-10W, AS5178W10	AL	5/8-inch
-1032	AN924-2J, AS5178J02	CRES	1/8-inch
-1033	AN924-3J, AS5178J03	CRES	3/16-inch
-1034	AN924-4J, AS5178J04	CRES	1/4-inch
-1035	AN924-5J, AS5178J05	CRES	5/16-inch
-1036	AN924-6J, AS5178J06	CRES	3/8-inch
-1038	AN924-8J, AS5178J08	CRES	1/2-inch
-1040	AN924-10J, AS5178J10	CRES	5/8-inch
-1062	AN924-2, AS5178-02	STL	1/8-inch
-1063	AN924-3, AS5178-03	STL	3/16-inch
-1064	AN924-4, AS5178-04	STL	1/4-inch
-1065	AN924-5, AS5178-05	STL	5/16-inch
-1066	AN924-6, AS5178-06	STL	3/8-inch
-1068	AN924-8, AS5178-08	STL	1/2-inch
-1070	AN924-10, AS5178-10	STL	5/8-inch



Continues

A880 FLARED TUBE COMPONENTS (Cont'd)
I. Tees – NPT to Flare

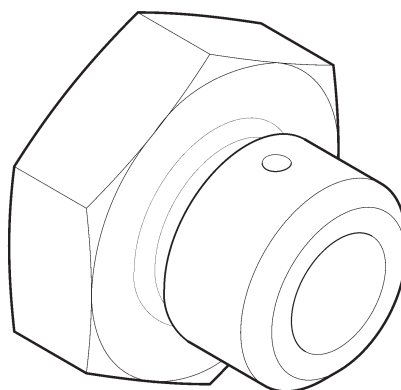
Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-1102	AN826-2D, MS20826-2D, AS5198W020202	AL	1/8-inch
-1103	AN826-3D, MS20826-3D, AS5198W030203	AL	3/16-inch
-1104	AN826-4D, MS20826-4D, AS5198W040204	AL	1/4-inch
-1105	AN826-5D, MS20826-5D, AS5198W050205	AL	5/16-inch
-1106	AN826-6D, MS20826-6D, AS5198W060406	AL	3/8-inch
-1108	AN826-8D, MS20826-8D, AS5198W080608	AL	1/2-inch
-1110	AN826-10D, MS20826-10D, AS5198W100810	AL	5/8-inch
-1132	AN826-2J, MS20826-2J, AS5198J020202	CRES	1/8-inch
-1133	AN826-3J, MS20826-3J, AS5198J030203	CRES	3/16-inch
-1134	AN826-4J, MS20826-4J, AS5198J040204	CRES	1/4-inch
-1135	AN826-5J, MS20826-5J, AS5198J050205	CRES	5/16-inch
-1136	AN826-6J, MS20826-6J, AS5198J060406	CRES	3/8-inch
-1138	AN826-8J, MS20826-8J, AS5198J080608	CRES	1/2-inch
-1140	AN826-10J, MS20826-10J, AS5198J100810	CRES	5/8-inch
-1162	AN826-2, MS20826-2, AS5198-020202	STL	1/8-inch
-1163	AN826-3, MS20826-3, AS5198-030203	STL	3/16-inch
-1164	AN826-4, MS20826-4, AS5198-040204	STL	1/4-inch
-1165	AN826-5, MS20826-5, AS5198-050205	STL	5/16-inch
-1166	AN826-6, MS20826-6, AS5198-060406	STL	3/8-inch
-1168	AN826-8, MS20826-8, AS5198-080608	STL	1/2-inch
-1170	AN826-10, MS20826-10, AS5198-100810	STL	5/8-inch



Continues

A880 FLARED TUBE COMPONENTS (Cont'd)
J. Plugs without Holes

Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-1202	AN814-2D, AN814-2W, AS5169D02, AS5169W02	AL	1/8-inch
-1203	AN814-3D, AN814-3W, AS5169D03, AS5169W03	AL	3/16-inch
-1204	AN814-4D, AN814-4W, AS5169D04, AS5169W04	AL	1/4-inch
-1205	AN814-5D, AN814-5W, AS5169D05, AS5169W05	AL	5/16-inch
-1206	AN814-6D, AN814-6W, AS5169D06, AS5169W06	AL	3/8-inch
-1208	AN814-8D, AN814-8W, AS5169D08, AS5169W08	AL	1/2-inch
-1210	AN814-10D, AN814-10W, AS5169D10, AS5169W10	AL	5/8-inch
-1232	AN814-2J, AS5169J02	CRES	1/8-inch
-1233	AN814-3J, AS5169J03	CRES	3/16-inch
-1234	AN814-4J, AS5169J04	CRES	1/4-inch
-1235	AN814-5J, AS5169J05	CRES	5/16-inch
-1236	AN814-6J, AS5169J06	CRES	3/8-inch
-1238	AN814-8J, AS5169J08	CRES	1/2-inch
-1240	AN814-10J, AS5169J10	CRES	5/8-inch
-1262	AN814-2, AS5169-02	STL	1/8-inch
-1263	AN814-3, AS5169-03	STL	3/16-inch
-1264	AN814-4, AS5169-04	STL	1/4-inch
-1265	AN814-5, AS5169-05	STL	5/16-inch
-1266	AN814-6, AS5169-06	STL	3/8-inch
-1268	AN814-8, AS5169-08	STL	1/2-inch
-1270	AN814-10, AS5169-10	STL	5/8-inch



Continues

A880 FLARED TUBE COMPONENTS (Cont'd)
K. Plugs with Holes

Dash Numbers	Allowable Part Numbers	Material REF	Tube OD REF
-1302	AN814-2DL, AN814-2WL, AS5169D02L, AS5169W02L	AL	1/8-inch
-1303	AN814-3DL, AN814-3WL, AS5169D03L, AS5169W03L	AL	3/16-inch
-1304	AN814-4DL, AN814-4 WL, AS5169D04L, AS5169W04L	AL	1/4-inch
-1305	AN814-5DL, AN814-5WL, AS5169D05L, AS5169W05L	AL	5/16-inch
-1306	AN814-6DL, AN814-6WL, AS5169D06L, AS5169W06L	AL	3/8-inch
-1308	AN814-8DL, AN814-8WL, AS5169D08L, AS5169W08L	AL	1/2-inch
-1310	AN814-10DL, AN814-10WL, AS5169D10L, AS5169W10L	AL	5/8-inch
-1332	AN814-2JL, AS5169J02L	CRES	1/8-inch
-1333	AN814-3JL, AS5169J03L	CRES	3/16-inch
-1334	AN814-4JL, AS5169J04L	CRES	1/4-inch
-1335	AN814-5JL, AS5169J05L	CRES	5/16-inch
-1336	AN814-6JL, AS5169J06L	CRES	3/8-inch
-1338	AN814-8JL, AS5169J08L	CRES	1/2-inch
-1340	AN814-10JL, AS5169J10L	CRES	5/8-inch
-1362	AN814-2L, AS5169-02L	STL	1/8-inch
-1363	AN814-3L, AS5169-03L	STL	3/16-inch
-1364	AN814-4L, AS5169-04L	STL	1/4-inch
-1365	AN814-5L, AS5169-05L	STL	5/16-inch
-1366	AN814-6L, AS5169-06L	STL	3/8-inch
-1368	AN814-8L, AS5169-08L	STL	1/2-inch
-1370	AN814-10L, AS5169-10L	STL	5/8-inch

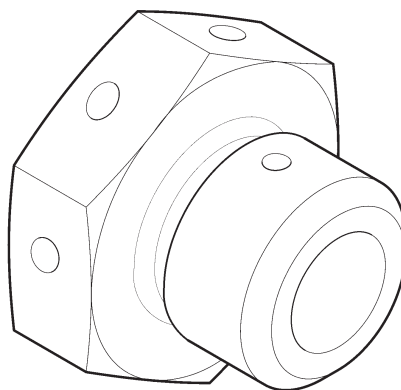


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PLACARDS AND MARKINGS* (Cont'd)		
11-1-16	R5691	Decal – Registration Letters/Numbers	X	A/R
	R7934	Decal – Registration Letters/Numbers (stencil set, black or white)	X	1
17	A654-21	Decal – “No Stowage...”	X	2
	B841-21	Brazilian Version	X	4
	B842-42	Chinese Version	X	4
	B830-50	Russian Version	X	4
18	A654-6	Decal – “Throttle Open”	X	1
19	A654-25	Decal – “Never Pull Down”	X	2
	B841-23	Brazilian Version	X	2
	B842-18	Chinese Version	X	2
	B830-61	Russian Version	X	2
20	F654-13	Decal (tail rotor gearbox fill and oil specification)	X	1
21	C654-18	Decal – “No Hand Hold”	X	1
	B841-47	Brazilian Version	X	1
	B830-85	Russian Version	X	1
22	F110-2	Telatemp (temperature recorder, 140° – 190°F)	X	1
23	R8216	Decal – “R44” (aft cowling, stencil)	X	1
24	A654-3	Decal – “Danger”	X	2
	B841-39	Brazilian Version	X	2
	B842-21	Chinese Version	X	2
	B830-23	Russian Version	X	2
25	C654-2	Decal – “Danger”	X	2
	B841-12	Brazilian Version	X	2
	B842-11	Chinese Version	X	2
	B830-22	Russian Version	X	2
26	G682-34**	Decal – “DO NOT OCCUPY...” (RH and LH; aft loading instructions, R44 Cadet)	X	1
	B830-104**	Russian Version (R44 Cadet)	X	1
	B841-68**	Brazilian Version (R44 Cadet)	X	1
	B842-54**	Chinese Version (R44 Cadet)	X	1
27	C703-2**	Cover Assembly (Ref; RH aft compartment)		
28	C703-1**	Cover Assembly (Ref; LH aft compartment)		

NOTES * Country-specific decals available only to dealers in noted country.

** Ship S/N 30001 and subsequent. See also Figure 94-3.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PLACARDS AND MARKINGS* (Cont'd)		
11-1-29	G682-35**	Decal – “Compartment Load Limit...” (R44 Cadet)	X	2
	B830-105**	Russian Version (R44 Cadet)	X	1
	B841-69**	Brazilian Version (R44 Cadet)	X	1
	B842-55**	Chinese Version (R44 Cadet)	X	1
30	R44RAVENI	R44 Raven I Fuel Tank Stencil (not shown)	X	A/R
31	R44RAVENII	R44 Raven II Fuel Tank Stencil (not shown)	X	A/R
32	R44CADET	R44 Cadet Fuel Tank Stencil (not shown)	X	A/R
NOTES * Country-specific decals available only to dealers in noted country. ** Ship S/N 30001 and subsequent. See also Figure 94-3.				

CHAPTER 25

FURNISHINGS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
25-1	Seat Installation	25.0
25-5	Aft Seat Support Installation	25.4
25-9	Heated Seats – Backrest Installation	25.8
25-11	Heated Seats – Seat Cushion Installation	25.10
25-13	Heated Seats – Wiring Installation	25.12
25-17	Seat Belt Installation	25.16
25-19	Seat Belt Installation	25.18
25-21	Five-Point Harness Installation	25.20
25-23	Five-Point Harness Installation	25.22
25-25	Four-Point Harness Installation	25.24
25-27	Four-Point Harness Installation	25.26
25-29	Carpet Installation	25.28
25-33	Headliner and Insulation Installation	25.32
25-37	Fire Extinguisher Installation	25.36
25-39	Fire Extinguisher Installation	25.38
25-41	Fire Extinguisher Installation	25.40
25-41B	Kannad ELT Installation	25.41A
25-45	Pointer ELT and Antenna Installation	25.44
25-49	Guard Assembly Installation	25.48

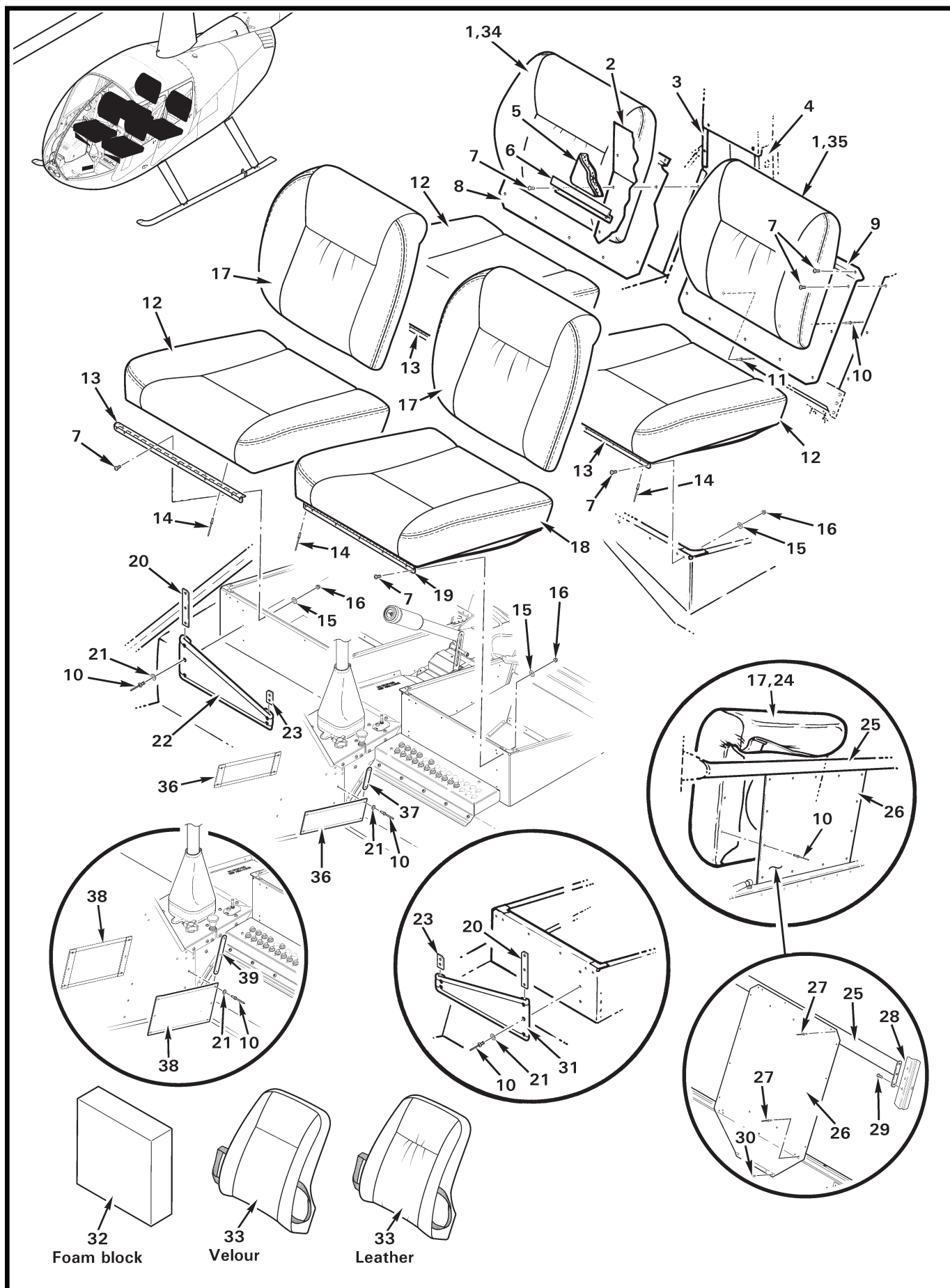


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SEAT INSTALLATION		
25-1-1	F936-2*	Backrest Assembly – Aft (RH and LH)	X	2
2	C474-1	Cover (Ref)		
3	C351-2	Brace – Aft Seat Back (RH)	X	1
4	C351-1	Brace – Aft Seat Back (LH)	X	1
5	C003-2	Insulation (Ref; see Figure 25-33)		
6	C474-3	Trim (Ref; see Figure 6-11)	X	1
7	MS27039C0806	Screw	X	54
8	C465-2	Panel (RH)	X	1
9	C465-1	Panel (LH)	X	1
10	B204-2	Rivet (blind)	X	51
11	B204-3	Rivet (blind, lower aft backrests only)	X	4
12	C928-9*	Seat Assembly (Incl items 13 and 14)	X	3
13	C928-5	Hinge	X	1
14	B204-4	Rivet (blind, countersunk)	X	39
15	NAS1149FN816P	Washer	X	27
16	MS21042L08	Nut	X	27
17	F936-1*	Backrest Assembly – Fwd (RH and LH, install using items 10 and 24)	X	2
18	C930-9*	Seat Assembly – Fwd (LH, includes items 14 and 19)	X	1
19	C930-6	Hinge	X	1
20	A913-1	Strip (earlier R44s, this location)	X	1
21	NAS1149FN632P	Washer	X	13
22	A912-1	Pocket	X	1
23	A913-2	Strip (earlier R44s, this location)	X	1
24	B270-18	Adhesive	X	A/R
25	C423-1	Tube Assembly – Forward Seat Backs	X	1
26	C925-1**	Panel – Forward Back Rest (LH and RH)	X	2
27	NAS9301B-4-02	Rivet	X	11
28	C403-11	Post Assembly (LH, Ref)		
29	MS27039C0807	Screw	X	6
30	MS20470AD3	Rivet	X	8
31	A912-4	Pocket (LH, earlier R44s)	X	1
32	A693-1	Cushion (for shorter pilots, 14 in. X 14 in. X 3 in. foam block)	X	1
33	A693-2*	Cushion Assembly (optional; for shorter pilots)	X	1
34	C003-10*	Seat Back Assembly – RH (Incl items 1, 8, and 10)	X	1
NOTES * Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, F936-2 in gray velour, order "F936-2GRV". ** C933 is superseded by C925-1.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY														
		SEAT INSTALLATION (Cont'd)																
25-1-35	C003-11 *	Seat Back Assembly – LH (Incl items 1, 9, and 10)	X	1														
36	A912-6	Pocket Assembly (RH and LH)	X	2														
37	A913-5	Strip (earlier R44s, this location)	X	A/R														
38	A912-5 *	Pocket Assembly (RH and LH, earlier R44s)	X	1														
39	A913-3	Strip (earlier R44s)	X	2														
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GRL</td><td>Gray leather</td></tr><tr><td>GRV</td><td>Gray velour</td></tr><tr><td>TNL</td><td>Tan leather</td></tr><tr><td>TNV</td><td>Tan velour</td></tr><tr><td>CHL</td><td>Charcoal leather</td></tr><tr><td>CHV</td><td>Charcoal velour</td></tr></table>					Code	Definition	GRL	Gray leather	GRV	Gray velour	TNL	Tan leather	TNV	Tan velour	CHL	Charcoal leather	CHV	Charcoal velour
Code	Definition																	
GRL	Gray leather																	
GRV	Gray velour																	
TNL	Tan leather																	
TNV	Tan velour																	
CHL	Charcoal leather																	
CHV	Charcoal velour																	
NOTES * Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, C003-11 in tan leather, order “C003-11TNL”.																		

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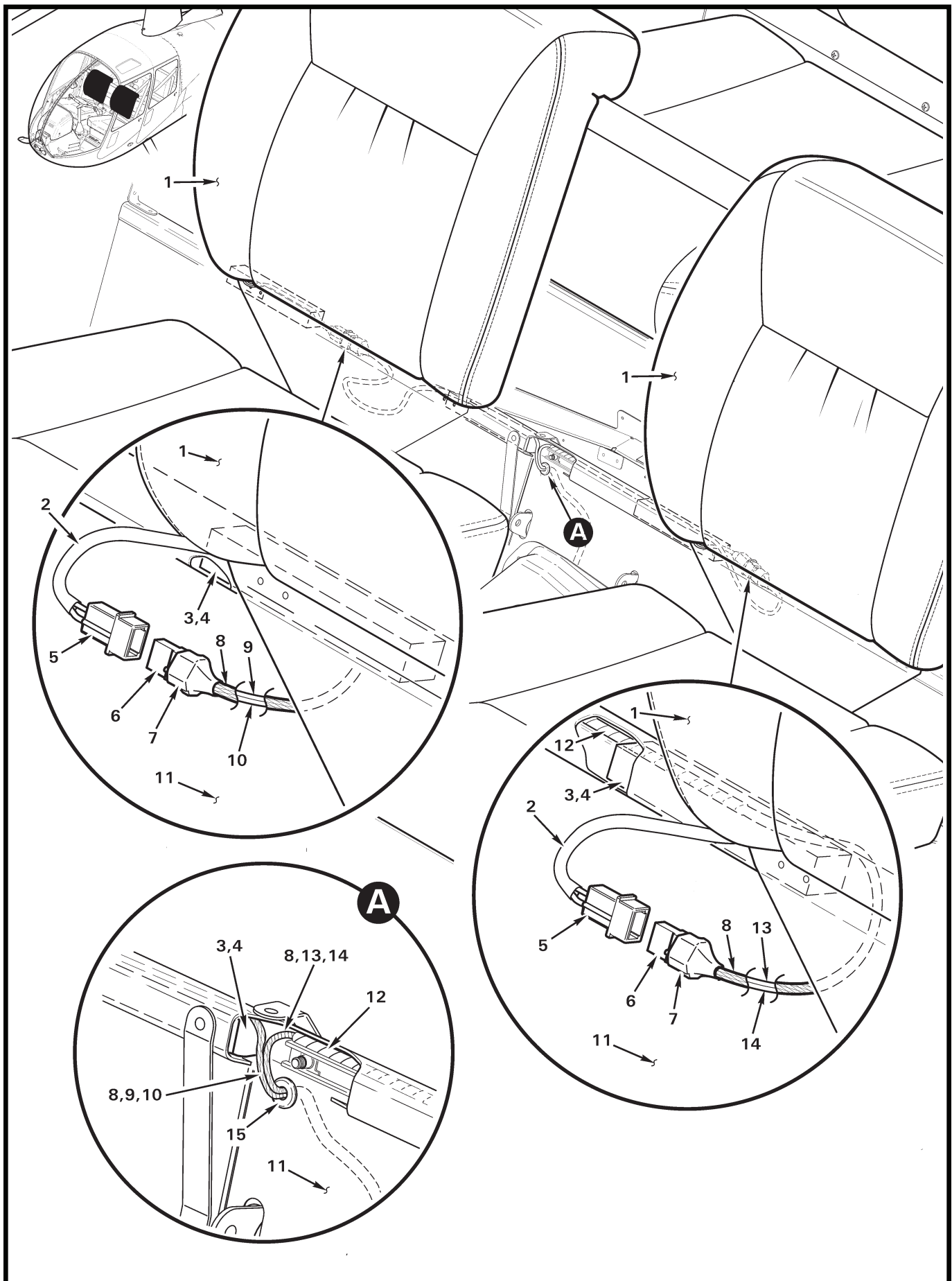


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HEATED SEATS – BACKREST INSTALLATION		
25-9-1	F936-5	Back Rest Assembly (RH and LH; includes items 2 thru 5) . . .	X	2
2	B158-3	Heat Shrink	X	A/R
3	F941-5 *	Foam (install using item 4)	X	3
4	B270-8QT	Adhesive	X	A/R
5	B263-32	Housing	X	1
	B263-1	Pin	X	2
	B158-3	Heat Shrink	X	A/R
6	B263-33	Housing	X	1
	B263-2	Socket	X	2
	B268-3	Lacing Tape	X	A/R
7	B158-6	Heat Shrink (around item 6)	X	A/R
8	B266-4	Sleeving	X	A/R
9	C938-2864	Wire (Ref)		
10	C938-2865	Wire (Ref)		
11	C370-1	Panel (Ref)		
12	B161-4	Spirap	X	A/R
13	C938-2868	Wire (Ref)		
14	C938-2869	Wire (Ref)		
15	MS35489-4	Grommet	X	1
NOTES				

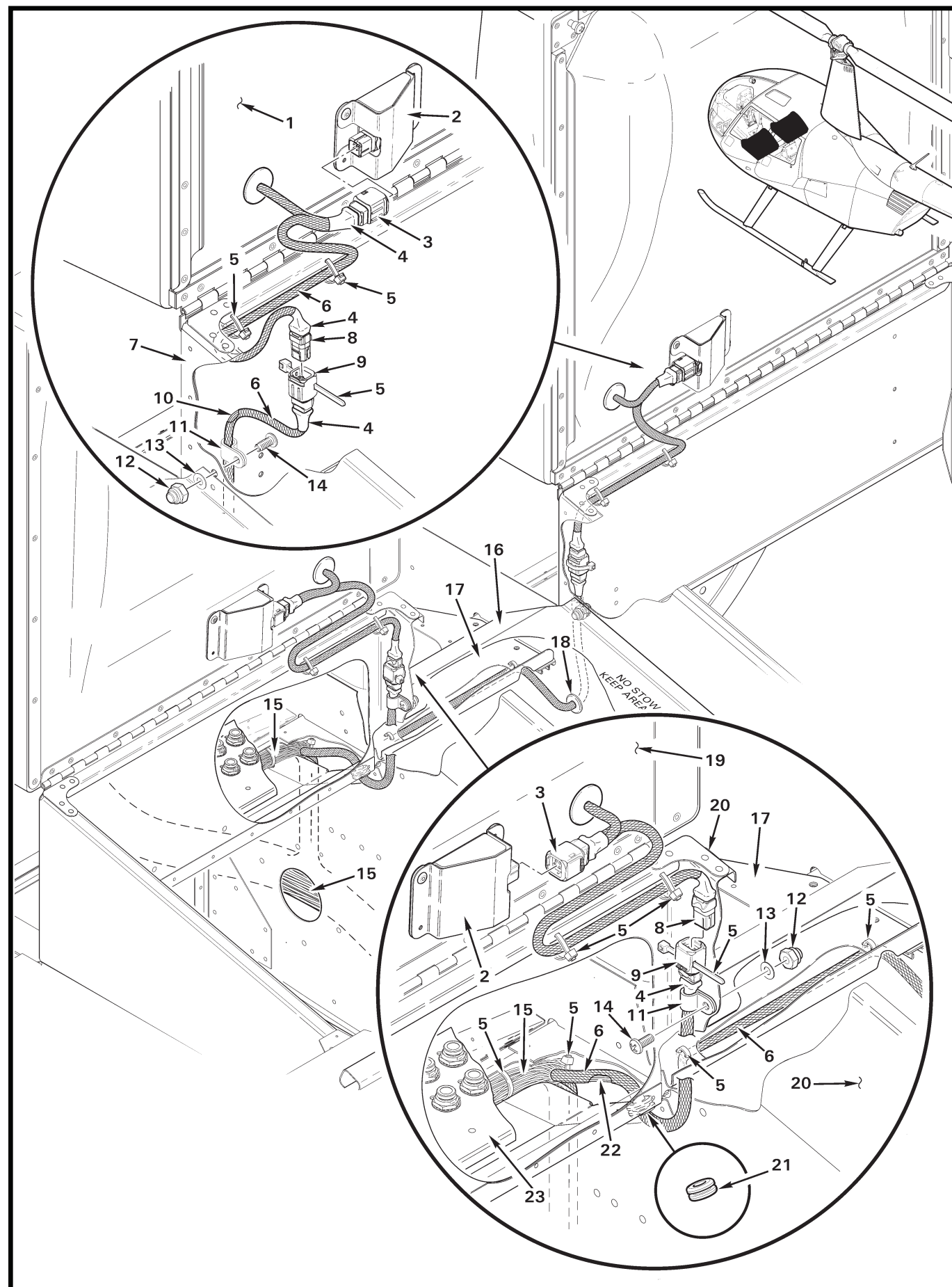


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HEATED SEATS – SEAT CUSHION INSTALLATION		
25-11-1	C928-11	Seat Assembly (RH, forward; includes items 2, 4, 6, and 8) . .	X	1
2	F941-1	Module Assembly (Ref)		
3	D269-11	Plug	X	1
4	B158-6	Heat Shrink	X	A/R
5	MS3367-4-0	Ty-Rap	X	A/R
6	B266-4	Sleeving	X	A/R
7	C290-4	Support Assembly – Seat (Ref, RH)		
8	D269-8	Receptacle	X	1
9	D269-7	Plug	X	1
10	C938-2417	Wire (Ref)		
	C938-2418	Wire (Ref)		
	C938-2864	Wire (Ref)		
	C938-2886	Wire (Ref)		
	C938-2887	Wire (Ref)		
11	N-4-BK	Clamp	X	2
12	B340-4	Nut	X	2
13	NAS1149FN816P	Washer	X	2
14	MS27039C0806	Screw	X	2
15	C859	Harness Assembly – Cabin (Ref)		
16	C445-1	Cover Assembly (Ref)		
17	D338-3	Plate (Ref)		
18	MS35489-6	Grommet	X	1
19	C930-11	Seat Assembly (LH, forward; includes items 2, 4, 6, and 8) . .	X	1
20	C297-5	Support Assembly – Seat (Ref, LH)		
21	G1042	Grommet	X	1
22	C938-2420	Wire (Ref)		
	C938-2421	Wire (Ref)		
	C938-2868	Wire (Ref)		
	C938-2870	Wire (Ref)		
	C938-2871	Wire (Ref)		
23	C490	Circuit Breaker Panel (Ref)		
NOTES				

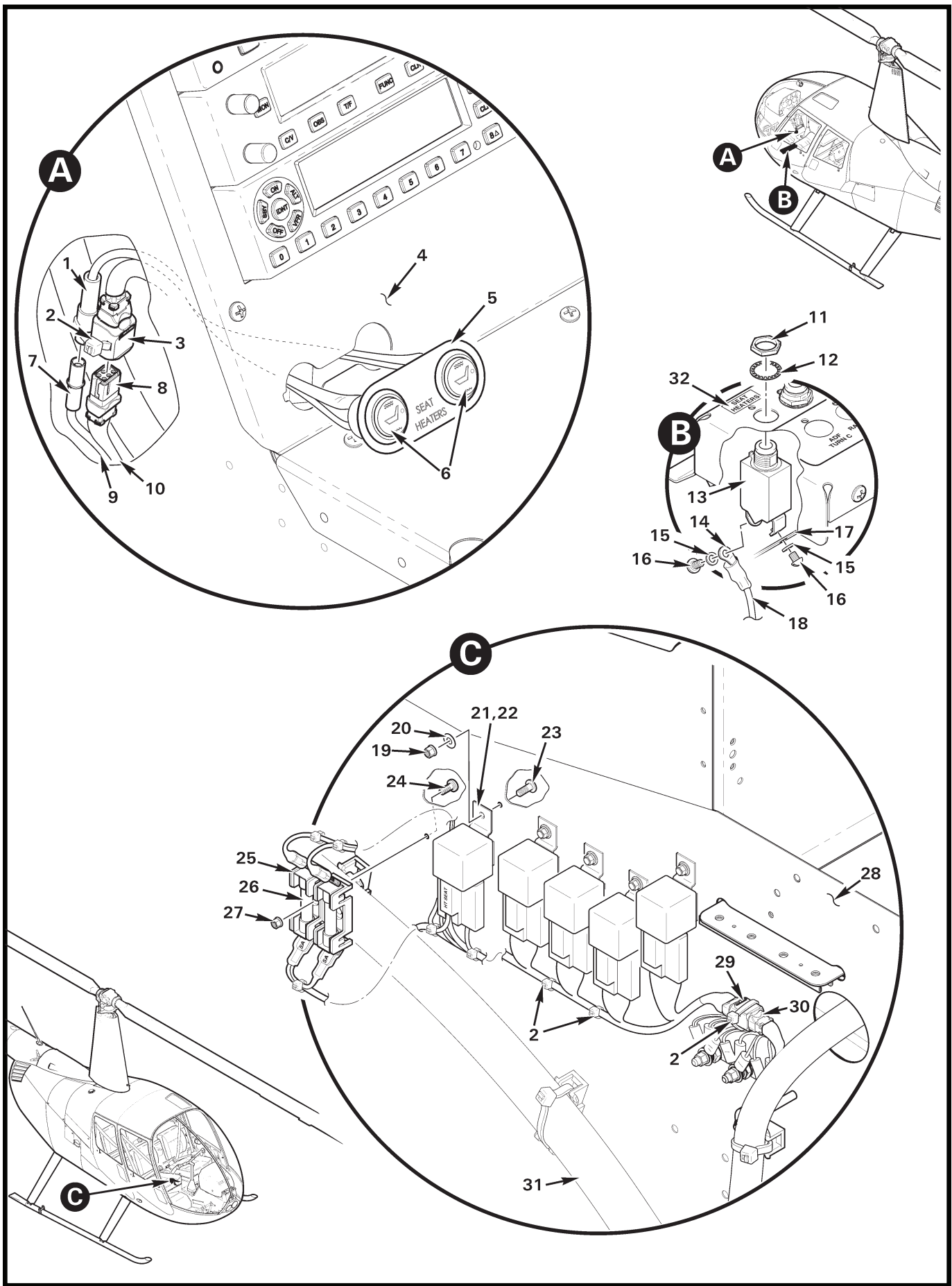


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
HEATED SEATS – WIRING INSTALLATION				
25-13-1	B263-10	Housing	X	1
	B263-1	Pin	X	1
2	MS3367-4-9	Ty-Rap	X	A/R
3	D269-5	Plug	X	1
4	D225	Avionics Panel (Ref)		
5	F372-4	Plate	X	1
6	F940-5	Switch Assembly (Incl items 1, 3, and 5)	X	1
7	B263-11	Housing	X	1
	B263-2	Socket	X	1
8	D269-6	Receptacle	X	1
9	-3145	Wire (Ref)		
10	-2416	Wire (Ref)		
	-2417	Wire (Ref)		
	-2418	Wire (Ref)		
	-2419	Wire (Ref)		
	-2420	Wire (Ref)		
	-2421	Wire (Ref)		
11	—	Nut	O	1
12	—	Lockwasher	O	1
13	B297-10	Circuit Breaker (10 amp, includes items 11, 12, 15, and 16)	X	1
14	B260-11	Terminal	X	1
15	—	Washer	O	2
16	—	Screw	O	2
17	A448	Bus Bar (Ref)		
18	-2413	Wire (Ref)		
19	MS21042L08	Nut	X	1
20	NAS1149FN816P	Washer	X	1
21	F940-6	Harness Assembly (Incl items 22, 24, and 25)	X	1
22	D260-4	Relay	X	1
	D260-6	Connector	X	1
23	MS27039C0806	Screw	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HEATED SEATS – WIRING INSTALLATION (Cont'd)		
25-13-24	MS35206-227*	Screw	X	1
25	D262-2	Fuse Block	X	1
26	D275-205	Fuse	X	2
27	MS21042L06*	Nut	X	1
28	C293-4	Panel (Ref)		
29	D269-1	Plug	X	1
30	D269-2	Receptacle (Ref)		
31	C859	Wire Harness (Ref)		
32	C654-64	Decal – “SEAT HEATERS”	X	1
NOTES * No thread exposed permissible.				

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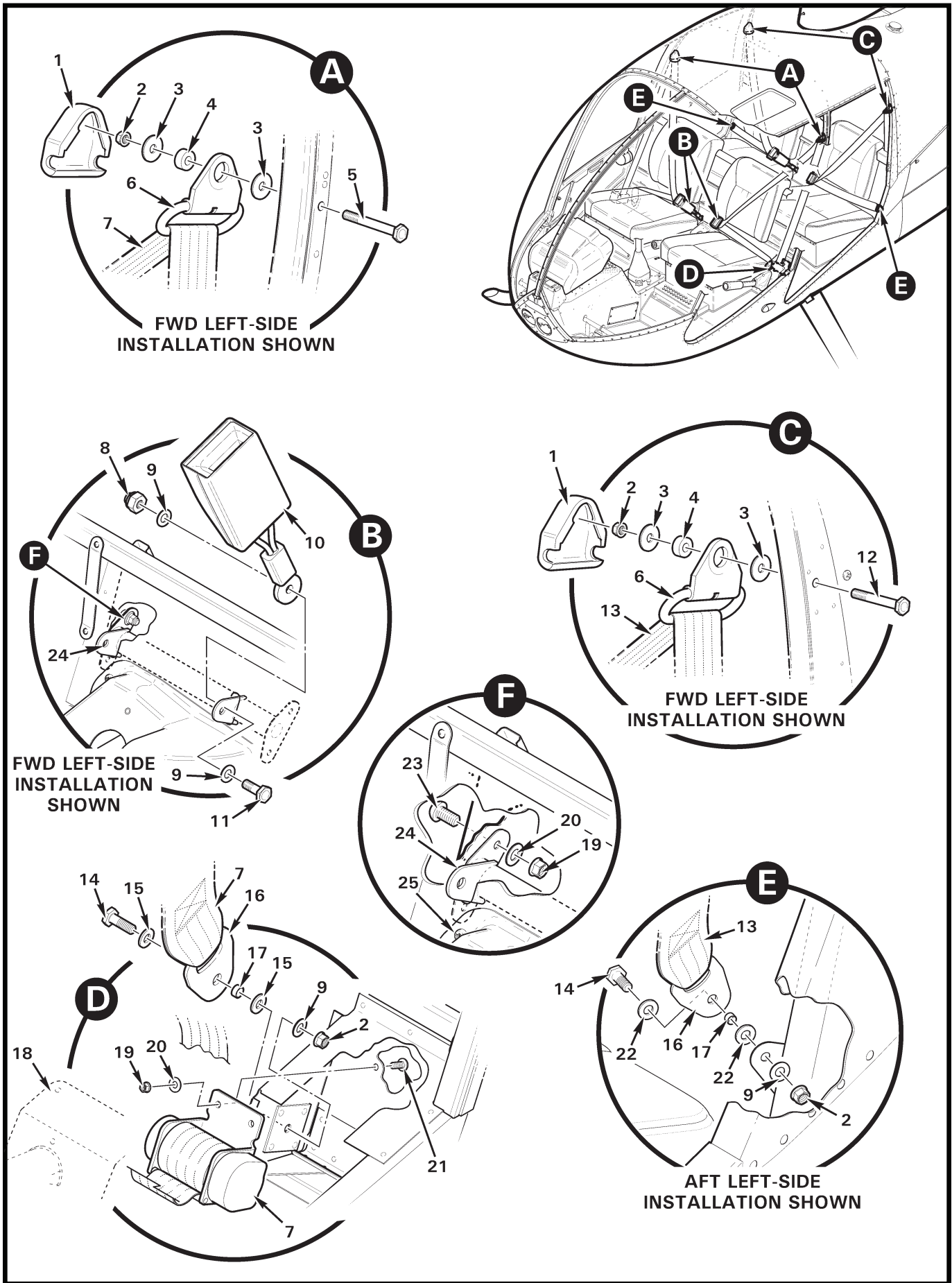


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SEAT BELT INSTALLATION		
25-17-1	505798-1	Cover	X	4
2	D210-4	Nut	X	5
3	A141-14	Washer	X	4
4	A130-44	Spacer	X	4
5	NAS6604-22	Bolt	X	2
6	505561-1	Guide Assembly	O	1
7	F628-1	Harness Assembly - Fwd Connector (LH; includes items 1, 6, and 16. Supersedes item 26.)	X	1
8	B340-10	Nut	X	2
9	NAS1149F0432P	Washer	X	7
10	F628-7	Buckle Assembly	X	4
11	NAS6604-4	Bolt	X	4
12	NAS6604-18	Bolt	X	2
13	F628-3	Harness Assembly - Aft Connector (LH & RH; includes items 1, 6, and 16. Supersedes item 27.)	X	1
14	NAS6604-5	Bolt	X	3
15	NAS1149F0463P	Washer	X	2
16	500782-33	Fitting	O	1
17	A130-28	Spacer	X	3
18	C680-1	Cover Assembly (Ref, see Figure 6-5)		
19	D210-3	Nut	X	8
20	NAS1149F0332P	Washer	X	8
21	MS27039C1-08	Screw ([4] required on earlier R44s)	X	2
22	MS20002-4	Washer	X	4
23	MS27039C1-07	Screw ([4] required on earlier R44s)	X	6
24	C348-5	Anchor Assembly (forward shown)	X	1
	C315-9	Anchor Assembly (Ref; aft anchor. Not shown, see Figure 67- 41.)		
25	C680-5	Cover Assembly (Ref, see Figure 6-5)		
26	C628-5	Harness Assembly - Aft Connector (LH & RH; includes items 1, 6, and 16)	O	1
27	C628-7	Harness Assembly - Aft Connector (LH & RH; includes items 1, 6, and 16)	O	2
NOTES				

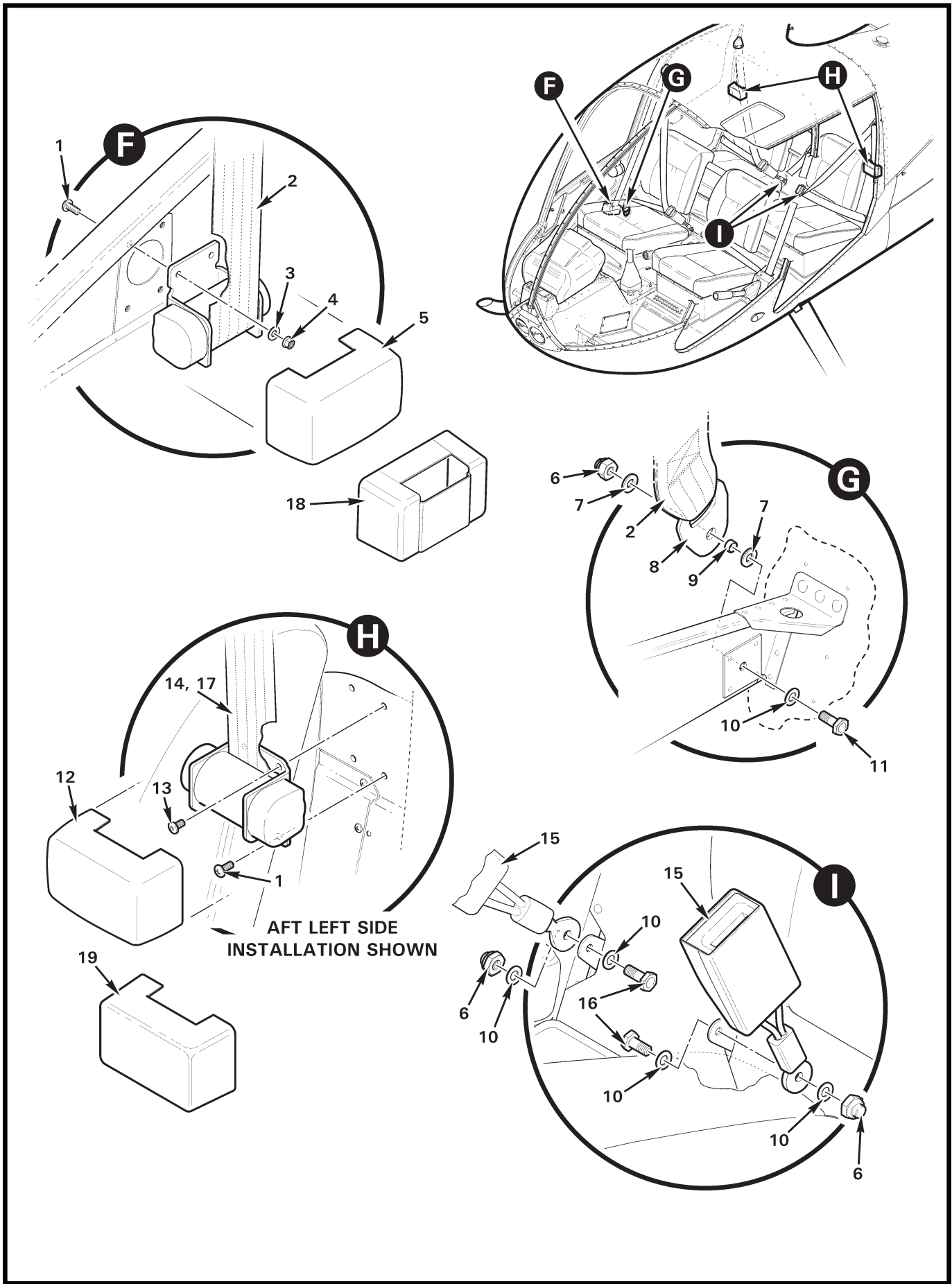


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SEAT BELT INSTALLATION		
25-19-1	MS27039C1-09	Screw	X	8
2	C628-6	Harness Assembly – Fwd (RH, includes items 8 and 19)	X	1
3	NAS1149F0332P	Washer	X	4
4	D210-3	Nut	X	4
5	506354-5	Cover	O	1
6	B340-10	Nut	X	1
7	MS20002-4	Washer	X	2
8	500782-33	Fitting	O	1
9	A130-28	Spacer	X	1
10	NAS1149F0432P	Washer	X	5
11	NAS6604-5	Bolt	X	1
12	506354-3	Cover	O	1
13	A142-1	Screw	X	4
14	F628-3	Harness Assembly – Aft Connector (LH & RH, includes items 8 and 18)	X	2
15	F628-7	Buckle Assembly	X	2
16	NAS6604-4	Bolt	X	2
17	C628-7	Harness Assembly – Aft Connector (LH & RH, includes items 8 and 12; superseded by item 14)	O	2
18	505663-5	Cover (earlier R44s)	O	2
19	505663-3	Cover (earlier R44s)	X	1
NOTES				

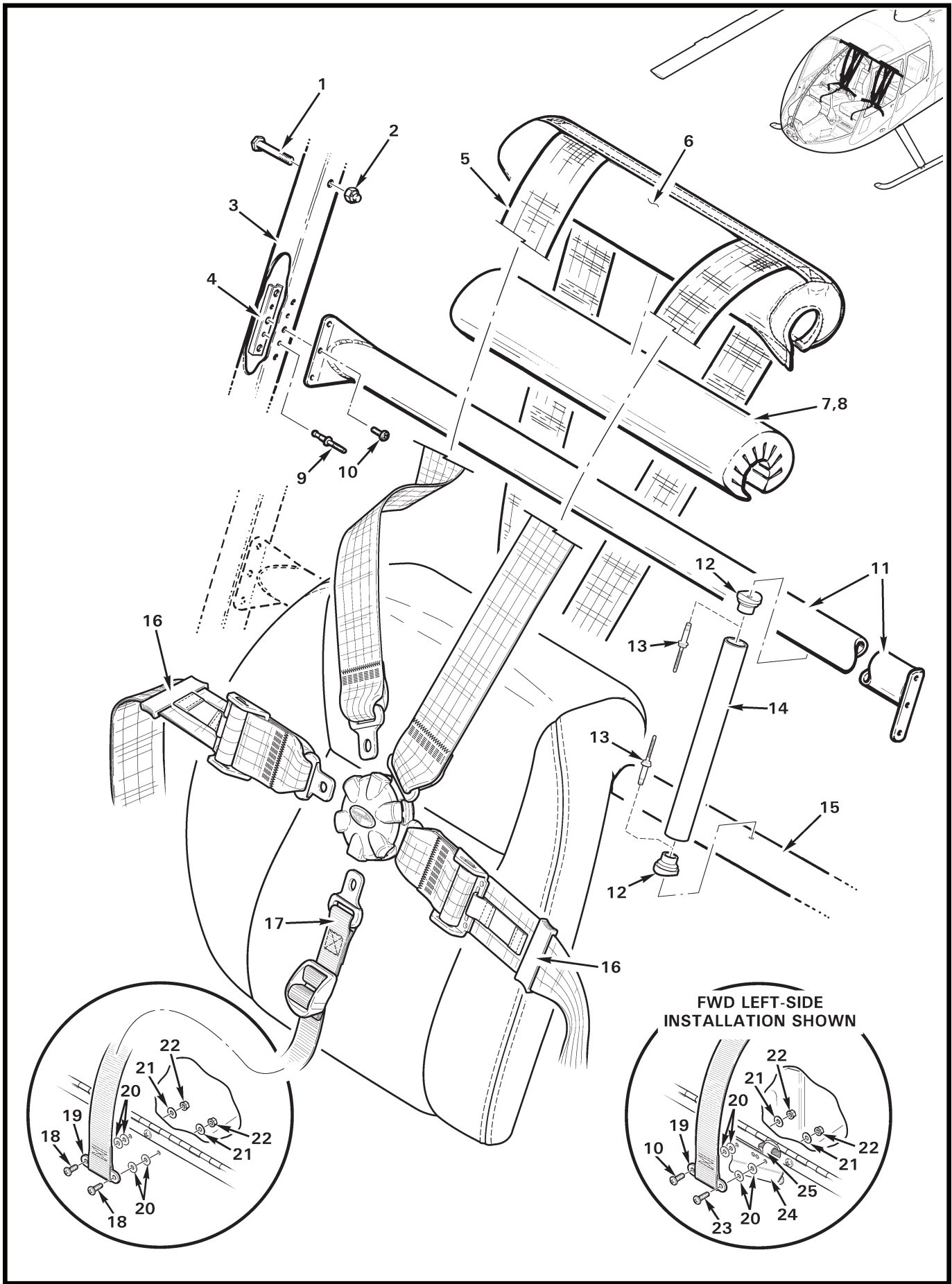


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY																
		FIVE-POINT HARNESS INSTALLATION*																		
25-21-1	NAS6604-17	Bolt	X	2																
2	B340-10	Nut	X	2																
3	C403-12	Post – Door (RH, Ref)																		
	C403-11	Post – Door (LH, not shown; Ref)																		
4	A738-28	Gang Channel	X	2																
5	C627-6	Harness Assembly (LH and RH, Ref. Includes shoulder/ lap/forward restraint belt(s), and inertia reel and cover, assembled. See also Figure 25-23.)																		
6	C420-1**	Cover	X	2																
7	C424-1	Padding (foam, install using item 8)	X	2																
8	B270-8QT	Adhesive	X	A/R																
9	NAS9302B-4-03	Rivet	X	4																
10	MS27039C0807	Screw ([7] required when item 24 is installed)	X	6																
11	C423-4	Tube	X	1																
12	C421-5	Fitting	X	2																
13	NAS9301B-5-06	Rivet	X	2																
14	C421-2	Tube (Ref)																		
15	C423-1	Tube (Ref)																		
16	503964-1	Web Slide	O	2																
17	—	Restraint Belt – Forward	O	1																
18	MS27039C0806	Screw ([2] required when item 24 is installed)	X	4																
19	F426-2	Anchor	X	2																
20	NAS1149FN832P	Washer (under item 19)	X	8																
21	NAS1149FN816P	Washer	X	2																
22	MS21042L08	Nut	X	2																
23	MS27039C0808	Screw (at LH forward, outboard position)	X	1																
24	G196-7	Light Assembly (Ref, see also Figure 33-19)																		
25	N-4-BK	Clamp (Ref)																		
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GRL</td><td>Gray leather</td></tr><tr><td>GRV</td><td>Gray vinyl</td></tr><tr><td>TNL</td><td>Tan leather</td></tr><tr><td>TNV</td><td>Tan vinyl</td></tr><tr><td>CHL</td><td>Charcoal leather</td></tr><tr><td>CHV</td><td>Charcoal vinyl</td></tr><tr><td>BKV</td><td>Black vinyl</td></tr></table>					Code	Definition	GRL	Gray leather	GRV	Gray vinyl	TNL	Tan leather	TNV	Tan vinyl	CHL	Charcoal leather	CHV	Charcoal vinyl	BKV	Black vinyl
Code	Definition																			
GRL	Gray leather																			
GRV	Gray vinyl																			
TNL	Tan leather																			
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CHL	Charcoal leather																			
CHV	Charcoal vinyl																			
BKV	Black vinyl																			
NOTES * Optional equipment. Refer to KI-155-1 for field installation. ** Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, C420-1 in black vinyl, order “C420-1BKV”.																				

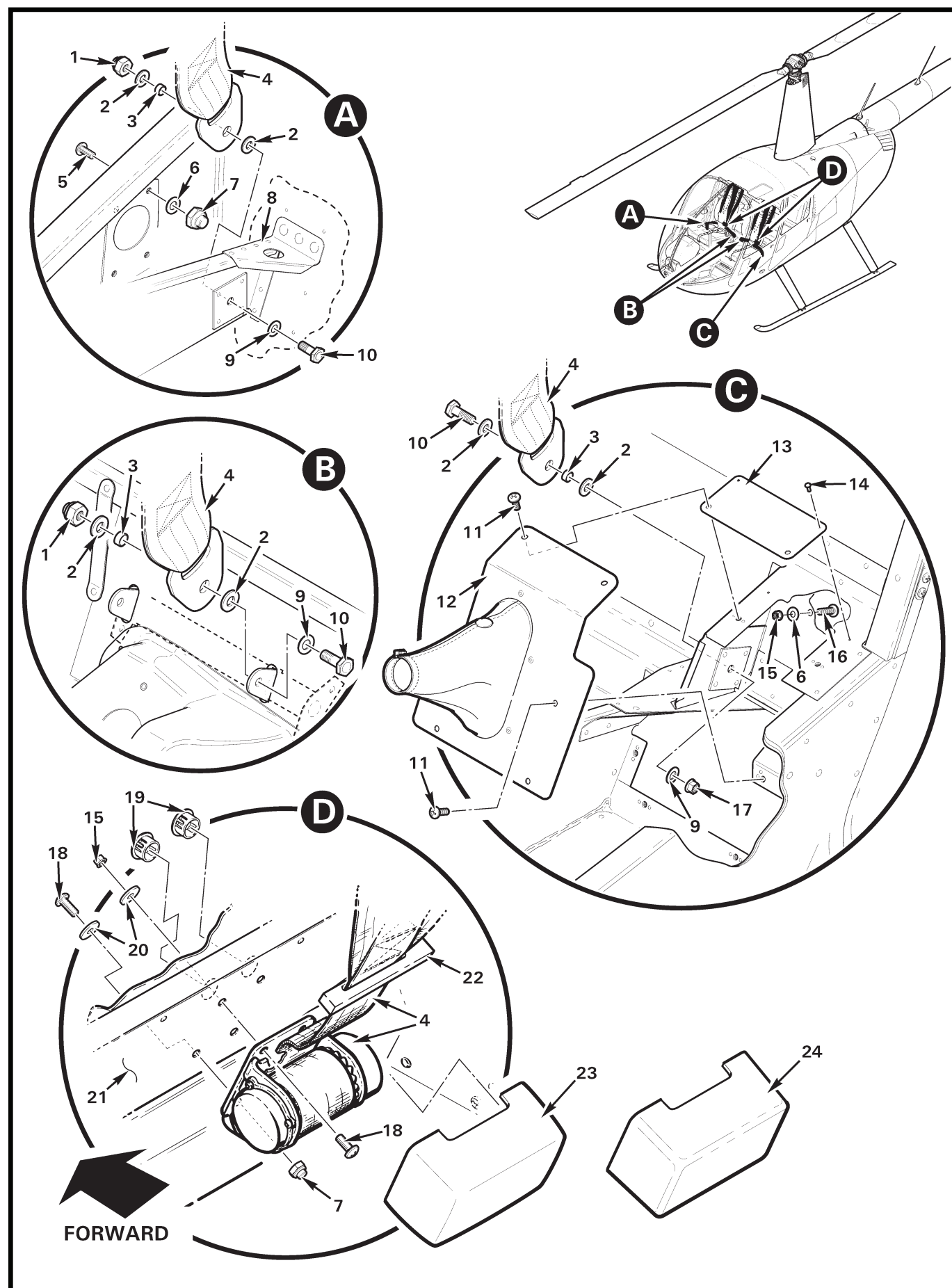


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FIVE-POINT HARNESS INSTALLATION*		
25-23-1	B340-10	Nut	X	3
2	MS20002-4	Washer	X	8
3	A130-28	Spacer	X	4
4	C627-6**	Harness Assembly (LH and RH; Ref. Includes items 22 and 23. See also Figure 25-21.)		
5	AN525-10R7	Screw	X	4
6	NAS1149F0332P	Washer	X	8
7	B340-8	Nut	X	6
8	C290-4	Seat Support (RH, Ref)		
9	NAS1149F0432P	Washer	X	4
10	NAS6604-5	Bolt	X	4
11	MS27039C0806	Screw (Ref)		
12	C680-1	Cover Assembly (Ref; see Figure 6-5)		
13	C680-4	Cover	X	1
14	MS20470AD3	Rivet	X	2
15	D210-3	Nut	X	8
16	MS27039C1-06	Screw	X	4
17	D210-4	Nut	X	1
18	MS27039C1-07	Screw	X	8
19	2663	Hole Plug	X	4
20	A141-17	Washer	X	8
21	C370-1	Panel (LH, Ref)		
22	C623-1	Block	O	1
	C623-2	Plate	O	1
	C623-3	Spring	O	1
23	506354-3	Cover	X	1
24	505663-3	Cover	X	1
NOTES * RH outboard and inboard position. ** Optional equipment. Refer to KI-155-1 for field installation.				

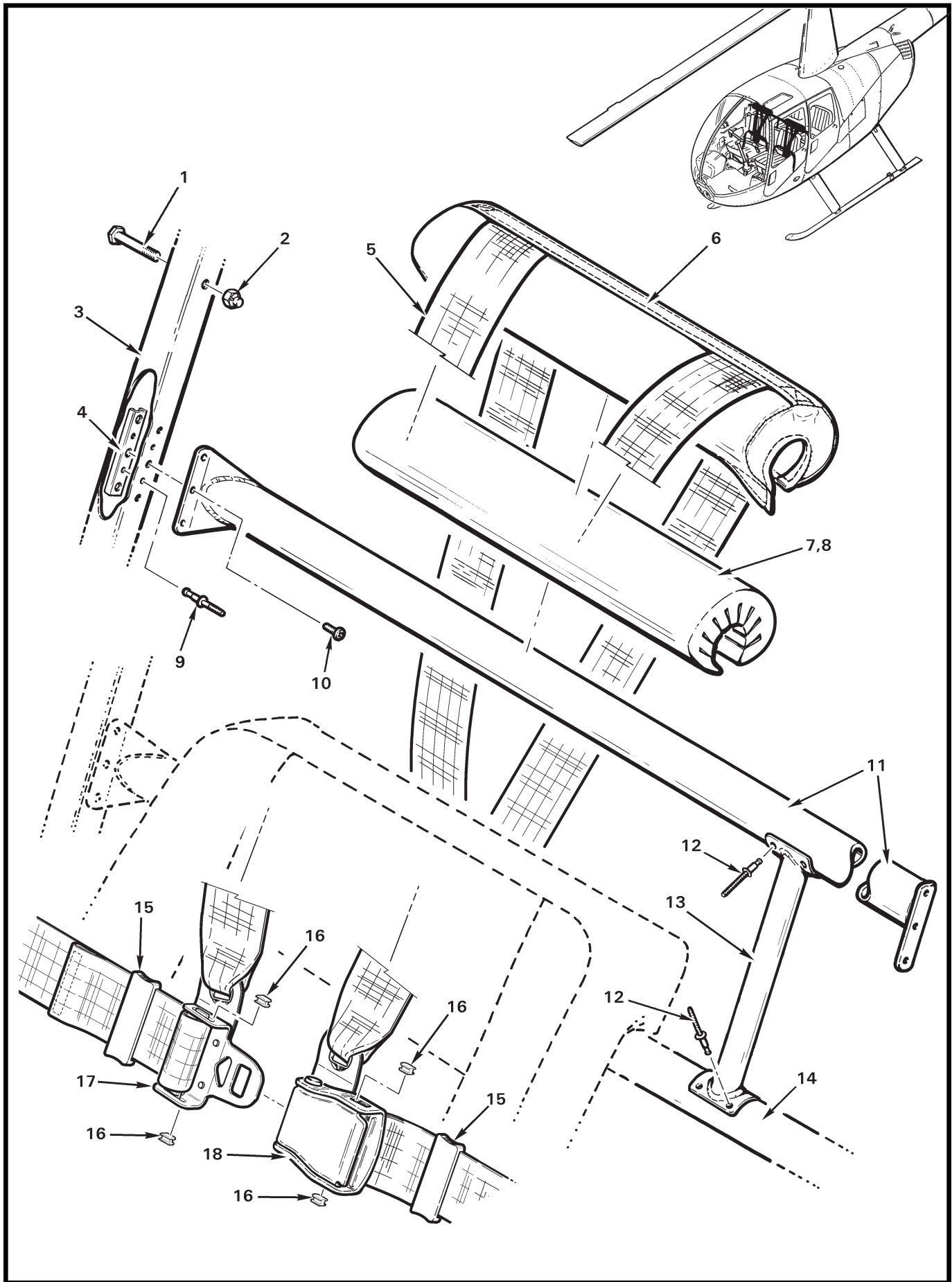


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY																
		FOUR-POINT HARNESS INSTALLATION																		
25-25-1	NAS6604-17	Bolt	X	2																
2	B340-10	Nut	X	2																
3	C403-12	Post – Door (RH, Ref)																		
	C403-11	Post – Door (LH, not shown; Ref)																		
4	A738-28	Gang Channel	X	2																
5	C627-5*	Harness Assembly (LH and RH, Ref. Includes shoulder/ lap belts, inertia reel and cover, and items 15 thru 18, assembled. See also Figure 25-27.)																		
	C627-4*	Harness Assembly (LH and RH, Ref)																		
6	C420-1**	Cover	X	2																
7	C424-1	Padding (foam, install using item 8)	X	2																
8	B270-8QT	Adhesive	X	A/R																
9	NAS9302B-4-03	Rivet (2 each side)	X	4																
10	MS27039C0807	Screw	X	6																
11	C423-4	Tube	X	1																
12	NAS9301B-4-02	Rivet	X	8																
13	C421-1*	Tube (Ref)																		
14	C423-1	Tube (Ref)																		
15	503964-1	Web Slide	O	2																
16	502913	Plug	X	4																
17	—	Connector Assembly (Ref)																		
18	—	Buckle Assembly (Ref)																		
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GRL</td><td>Gray leather</td></tr><tr><td>GRV</td><td>Gray vinyl</td></tr><tr><td>TNL</td><td>Tan leather</td></tr><tr><td>TNV</td><td>Tan vinyl</td></tr><tr><td>CHL</td><td>Charcoal leather</td></tr><tr><td>CHV</td><td>Charcoal vinyl</td></tr><tr><td>BKV</td><td>Black vinyl</td></tr></table>					Code	Definition	GRL	Gray leather	GRV	Gray vinyl	TNL	Tan leather	TNV	Tan vinyl	CHL	Charcoal leather	CHV	Charcoal vinyl	BKV	Black vinyl
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CHL	Charcoal leather																			
CHV	Charcoal vinyl																			
BKV	Black vinyl																			
NOTES * No longer available. Refer to KI-155-2 to upgrade to five-point harness. ** Refer to chart at the end of parts list when ordering. Include code after dash no., for example, C420-1 in black vinyl, order "C420-1BKV".																				

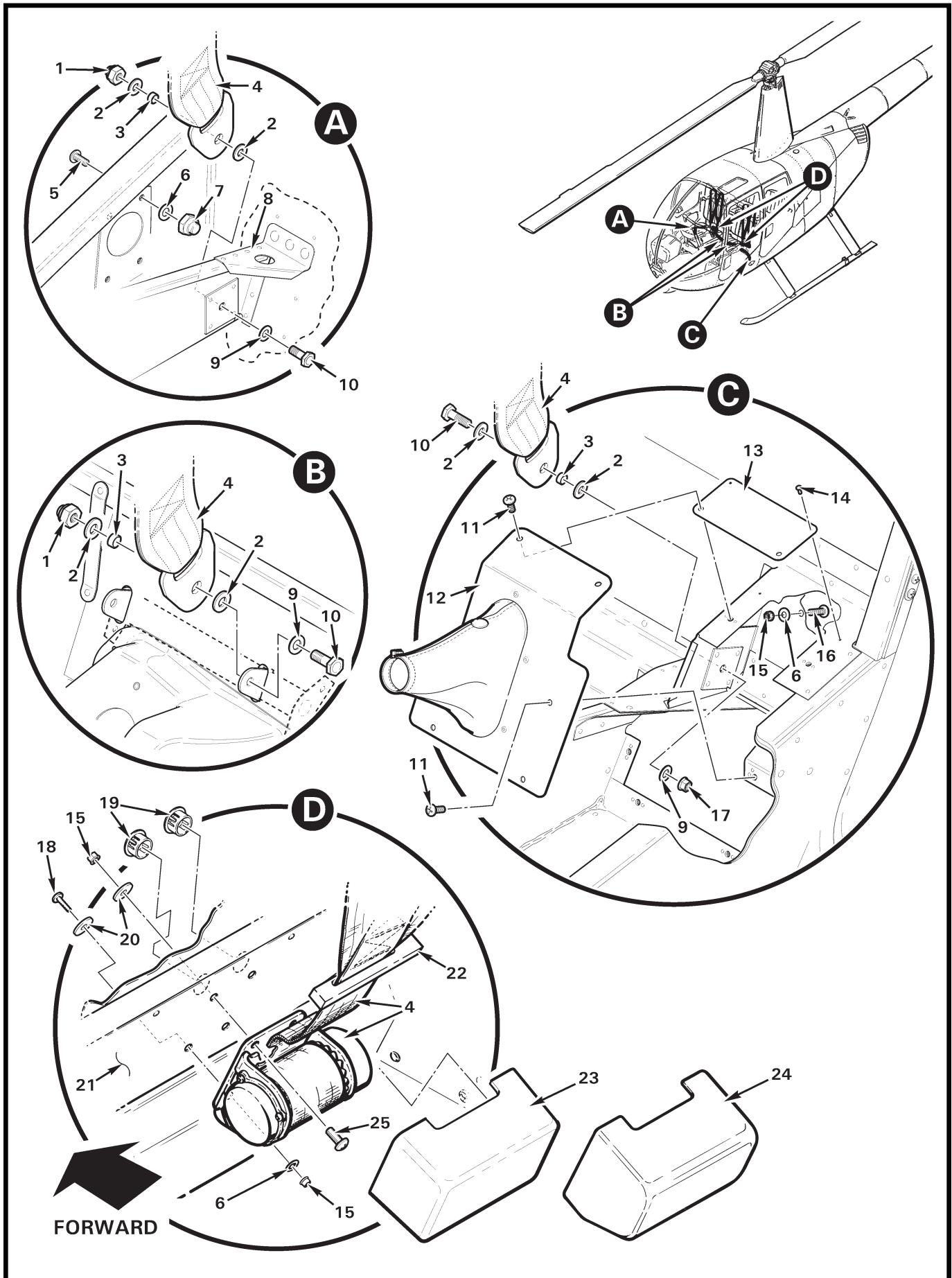


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FOUR-POINT HARNESS INSTALLATION*		
25-27-1	B340-10	Nut	X	3
2	MS20002-4	Washer (supersedes NAS1149F0463P)	X	8
3	A130-28	Spacer	X	3
4	C627-5**	Harness Assembly (Ref; LH and RH. Includes items 22 and 23. See also Figure 25-25.)		
	C627-4**	Harness Assembly (LH and RH, not shown; includes items 22 and 24. See also Figure 25-25.)		
5	AN525-10R7	Screw	X	4
6	NAS1149F0332P	Washer	X	12
7	B340-8	Nut ([2] at upper locations of standard harness inertia reel mount; [4] at upper and lower locations on earlier R44s, not shown)	X	8
8	C290-4	Seat Support (RH, Ref)		
9	NAS1149F0432P	Washer	X	4
10	NAS6604-5	Bolt	X	4
11	MS27039C0806	Screw (Ref)		
12	C680-1	Cover Assembly (Ref; see Figure 6-5)		
13	C680-4	Cover	X	1
14	MS20470AD3-3	Rivet	X	2
15	D210-3	Nut	X	12
16	MS27039C1-06	Screw	X	4
17	D210-4	Nut	X	1
18	MS27039C1-10	Screw	X	4
19	2663	Hole Plug	X	4
20	A141-17	Washer	X	8
21	C370-1	Panel (LH, Ref)		
22	C623-1	Block	O	1
	C623-2	Plate	O	1
	C623-3	Spring	O	1
23	505663-3	Cover	X	1
24	502224	Cover (earlier R44s)	O	1
25	MS27039C1-07	Screw	X	4
NOTES * Outboard and inboard position. ** No longer available. Refer to KI-155-2 to upgrade to five-point harness.				

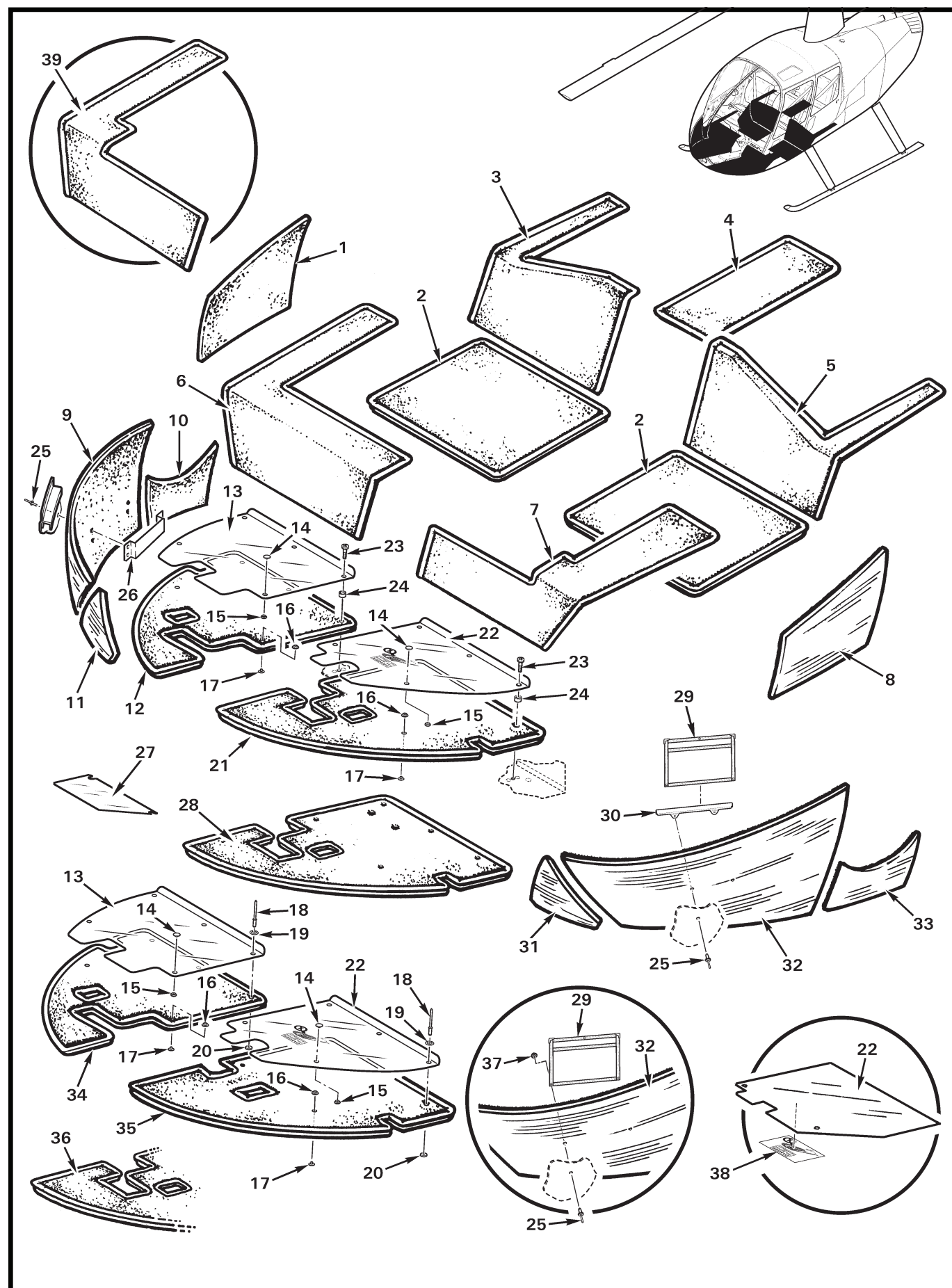


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CARPET INSTALLATION*		
25-29-1	C469-16**	Carpet – Aft (RH)	X	1
2	C469-7**	Carpet Assembly – Aft (RH and LH, includes pad)	X	2
3	C469-34**	Carpet Assembly – Aft (RH)	X	1
	C469-6**	Carpet Assembly – Aft (RH, w/o aft heater; not shown)	X	1
4	C469-8**	Carpet Assembly (Tunnel)	X	1
5	C469-33	Carpet Assembly – Aft (LH, with aft heater)	X	1
	C469-5**	Carpet Assembly – Aft (LH, w/o aft heater; not shown)	X	1
6	C469-4**	Carpet Assembly – Fwd (RH)	X	1
7	C469-38	Carpet Assembly – Fwd (LH, for use with raised C.B. panel) . .	X	1
	C469-3**	Carpet Assembly – Fwd (LH, for use with flush C.B. panel; not shown)	X	1
8	C469-15**	Carpet – Aft (LH)	X	1
9	C469-12**	Carpet (RH)	X	1
10	C469-14**	Carpet (RH)	X	1
11	C469-10**	Carpet (RH)	X	1
12	C469-46**	Carpet Assembly – Fwd (RH, with screwed-down scuff plate. Includes items 13, 16, 17, and pad.)	X	1
13	C469-25	Scuff Plate Assembly (RH, Incl items 14, 15, and 41)	X	1
14	MS27981-1B	Button	X	4
15	MS27981-3B	Socket	X	4
16	MS27981-4B	Stud	X	4
17	MS27981-5B	Eyelet	X	4
18	B204-4	Rivet (blind)	X	6
19	A3236-012-193	Washer	X	6
20	90183A213	Washer	X	6
21	C469-45**	Carpet Assembly – Fwd (LH, with screwed-down scuff plate. Includes items 16, 17, 22, and pad.)	X	1
22	C469-31	Scuff Plate Assembly (LH, Incl items 14, 15, 39, and 41) . .	X	1
23	MS27039C0810	Screw	X	6
24	A130-33	Spacer	X	6
25	B204-2	Rivet (blind; [4] rivets installed through item 26, [2] installed through items 29 and 30)	X	6
26	A745-1	Strap	X	1
27	B392-2	Cover (install when co-pilot pedals are removed)	X	1
28	C469-53	Carpet Assembly (LH, with LH heater outlet, floor intercom switches)	X	1

NOTES * Available in dark charcoal only.

** Install using item 40.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
CARPET INSTALLATION* (Cont'd)				
25-29-29	13-07900	License Holder	X	1
30	B632-1	Channel	X	1
31	C469-9**	Carpet (LH)	X	1
32	C469-11**	Carpet (LH)	X	1
33	C469-13**	Carpet (LH)	X	1
34	C469-2**	Carpet Assembly (RH, with riveted scuff plate. Includes items 13, 16 thru 20, and pad.)	X	1
35	C469-1**	Carpet Assembly (LH, without LH heater outlet. Includes items 16 thru 20, 22, and pad.)	X	1
36	C469-37**	Carpet Assembly (LH, with LH heater outlet. Includes items 16 thru 20, 22, and pad)	X	1
37	NAS620-5	Washer	X	2
38	A654-85	Decal – “Danger” (earlier R44s; replace with C469-31 scuff plate)	O	1
39	C469-43**	Carpet Assembly – Fwd (RH, for use with raised Aux C.B. panel)	X	1
40	B270-8QT	Adhesive	X	A/R

41	C469-1K1	Installation Hardware Kit (Incl items 42 thru 46; for use with riveted scuff plate)	X	1
42	90183A213	Washer	X	3
43	A3236-012-193	Washer	X	3
44	B204-4	Rivet (blind)	X	3
45	MS27981-4B	Stud	X	2
46	MS27981-5B	Eyelet	X	2

47	C469-1K2	Installation Hardware Kit (Incl items 48 [3 each] and 49 [3 each]; for use with 3-screw scuff plate)	X	1
48	A130-33	Spacer	X	A/R
49	AN525-832R10	Screw	X	A/R

50	C469-1K3	Installation Hardware Kit (Incl items 48 [5 each] and 49 [5 each]; for use with 5-screw scuff plate)	X	1
NOTES * Available in dark charcoal only. ** Install using item 40.				

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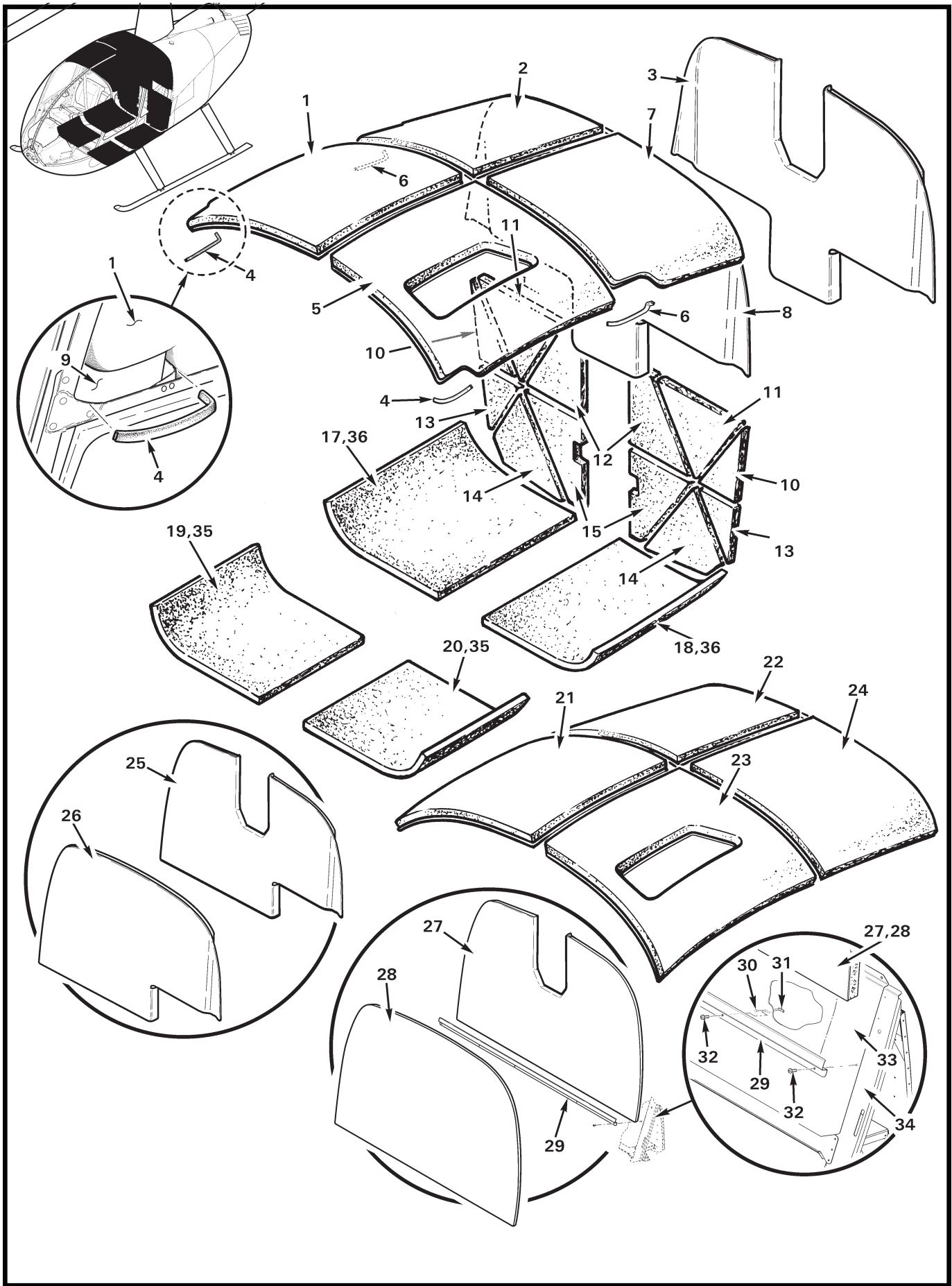


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		HEADLINER AND INSULATION INSTALLATION		
25-33-1	C003-21 *	Insulation** (forward, RH; for ships with hand-holds)	X	1
2	C003-19 *	Insulation** (aft, RH; for ships with hand-holds)	X	1
3	C003-18 *	Insulation** (aft cabin; for air conditioned ships)	X	1
4	C212-1	Trim (hand-hold; forward, LH and RH)	X	2
5	C003-22 *	Insulation** (forward, LH; for ships with hand-holds)	X	1
6	C212-2	Trim (hand-hold; aft, LH and RH)	X	2
7	C003-20 *	Insulation** (aft, LH; for ships with hand-holds)	X	1
8	C003-2 *	Insulation** (aft cabin; for non-air conditioned ships)	X	1
9	C212-3	Patch** (installed behind items 4 and 6; [4] R44 and R44 II, [2] R44 Cadet)	X	A/R
10	C003-14	Insulation**	X	2
11	C003-13	Insulation**	X	2
12	C003-12	Insulation**	X	2
13	C003-15	Insulation**	X	2
14	C003-16	Insulation**	X	2
15	C003-17	Insulation**	X	2
16	B270-8QT	Adhesive	X	A/R
17	F470-4	Liner (aft, RH baggage compartment; replaces C008-7 insulation)	X	1
18	F470-3	Liner (aft, LH baggage compartment; replaces C008-7 insulation)	X	1
19	F470-2	Liner (forward, RH baggage compartment; replaces C003-8 insulation)	X	1
20	F470-1	Liner (forward, LH baggage compartment; replaces C003-8 insulation)	X	1
21	C003-5 *	Insulation** (forward, RH; for ships <u>without</u> hand-holds)	X	1
22	C003-3 *	Insulation** (aft, RH; for ships <u>without</u> hand-holds)	X	1
23	C003-6 *	Insulation** (forward, LH; for ships <u>without</u> hand-holds)	X	1
24	C003-4 *	Insulation** (aft, LH; for ships <u>without</u> hand-holds)	X	1
25	D598-4 *	Insulation** (aft cabin; for ENG/Police air conditioned ships)	X	1
26	D598-2 *	Insulation** (aft cabin; for ENG/Police non-air conditioned ships)	X	1
27	C003-25 *	Insulation** (aft cabin; for Cadet air conditioned ships)	X	1
28	C003-24 *	Insulation** (aft cabin; for Cadet non-air conditioned ships)	X	1
29	D670-6	Trim (replaces C474-3 trim)	X	1
30	MS20426AD3	Rivet	X	4
NOTES * Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, C003-21 in tan, order "C003-21TN". ** Install using item 16.				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY						
		HEADLINER AND INSULATION INSTALLATION (Cont'd)								
25-33-31	MS21069L08K	Nutplate (two places, LH and RH)	X	2						
32	MS27039C0806	Screw	X	6						
33	C465-1	Panel (Ref, LH; see Figure 25-1)								
34	C015	Cabin Assembly (Ref)								
35	C003-8	Insulation (earlier R44s; forward baggage compartment)	O	2						
36	C003-7	Insulation (earlier R44s; aft baggage compartment)	O	2						
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GR</td><td>Gray</td></tr><tr><td>TN</td><td>Tan</td></tr></table>					Code	Definition	GR	Gray	TN	Tan
Code	Definition									
GR	Gray									
TN	Tan									
NOTES										

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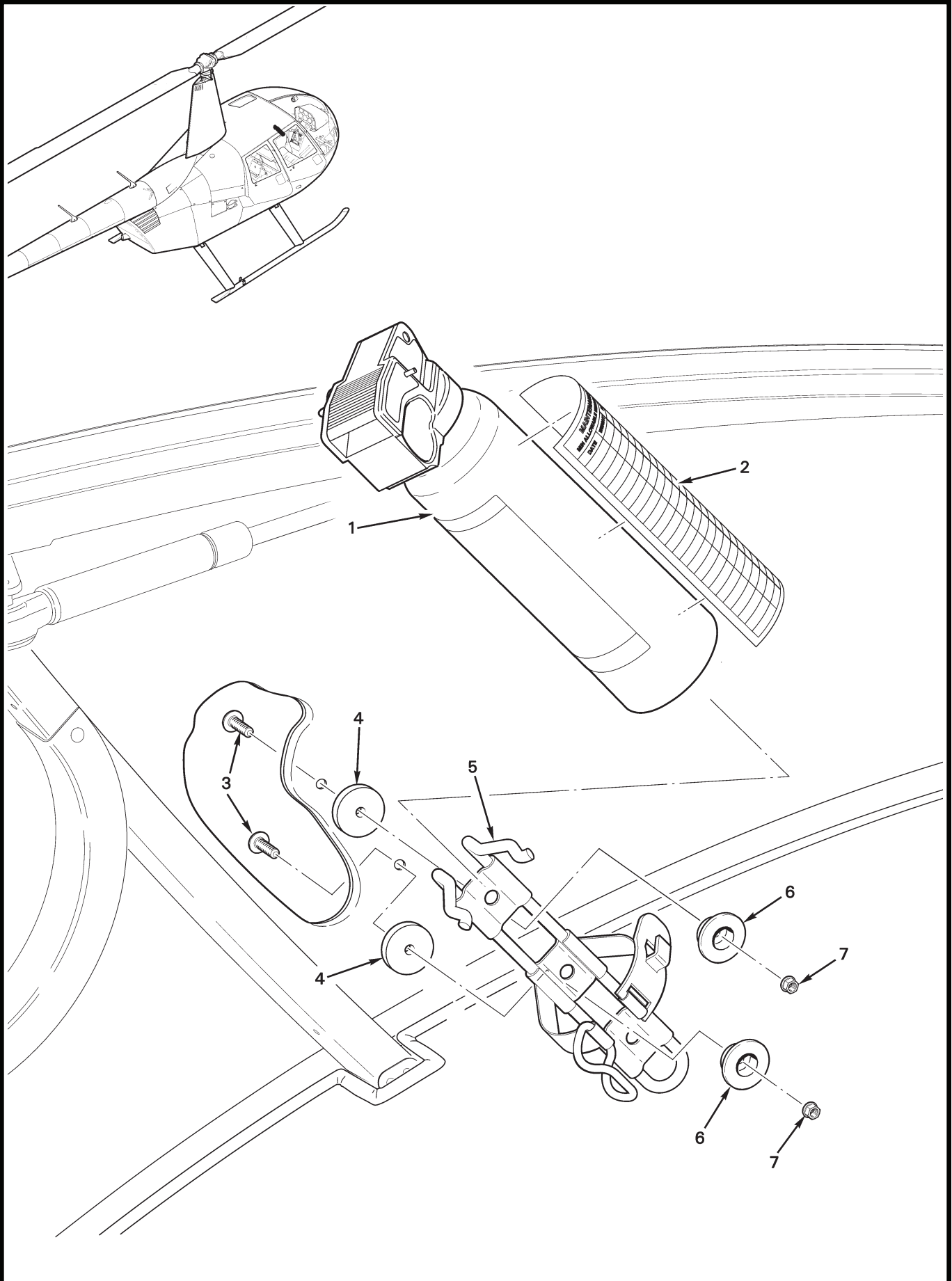


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
25-37-1		FIRE EXTINGUISHER INSTALLATION		
	B381-1	Fire Extinguisher Assembly (includes RT-A400 Fire Extinguisher and item 2)	X	1
	RT-A400	Fire Extinguisher (14-oz. capacity)	O	1
	2 G654-15	Decal – Maintenance Log	X	1
	3 AN526C832R_	Screw (select screw length to provide 0.00–0.06 in. exposed thread)	X	2
	4 C130-54	Spacer	X	2
	5 B381-3	Bracket	X	1
	6 G220-1	Retainer	X	2
7	MS21042L08	Nut	X	2
NOTES				

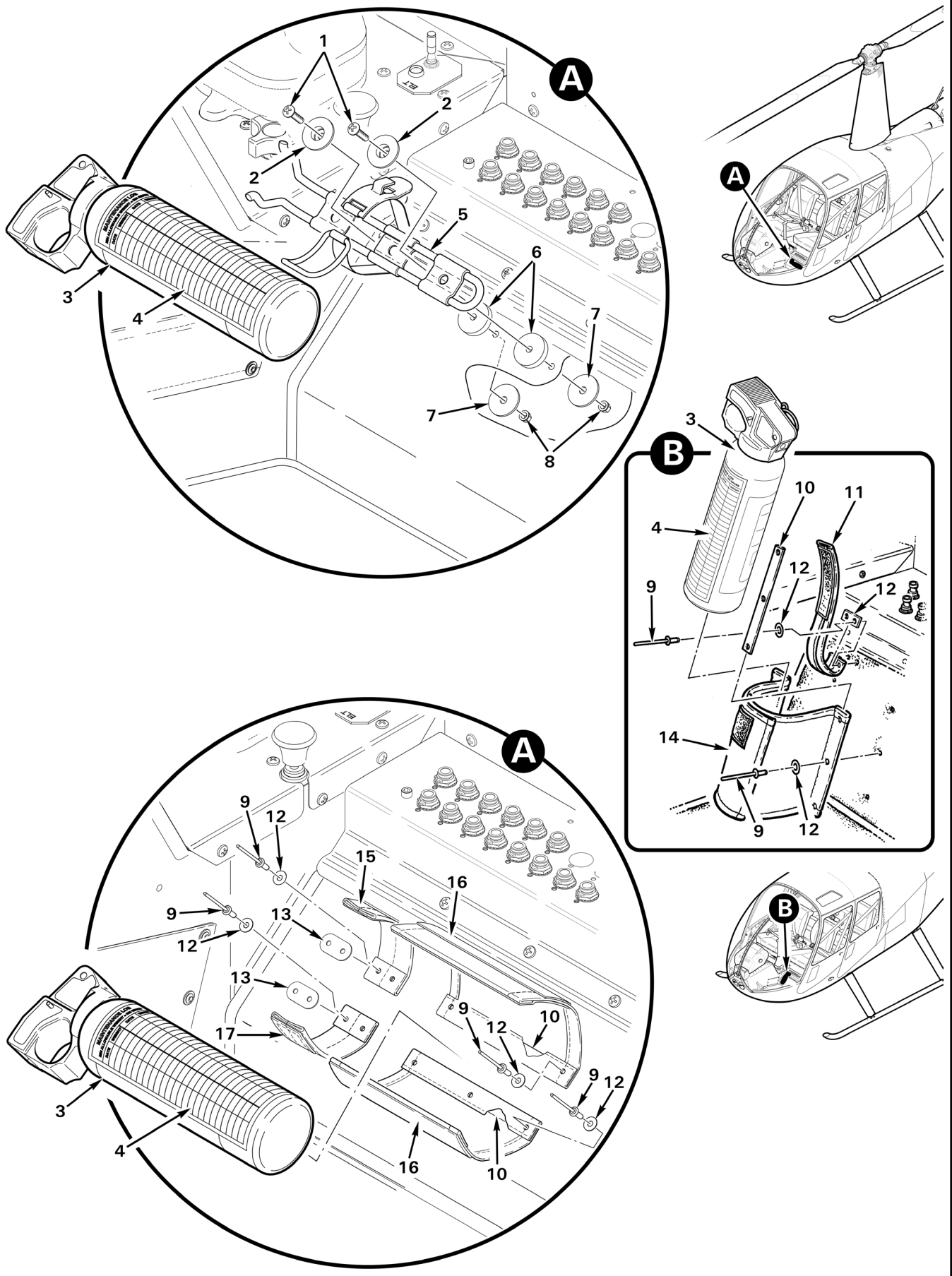


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY								
		FIRE EXTINGUISHER INSTALLATION										
25-39-1	MS27039C0810	Screw	X	2								
2	G220-1	Retainer	X	2								
3	B381-1	Fire Extinguisher (Halon, 14-oz. capacity; includes item 4) . . .	X	1								
	RT-A400	Fire Extinguisher (14-oz. capacity)	O	1								
4	G654-15	Decal – Maintenance Log	X	1								
5	B381-3	Bracket	X	1								
6	C130-54	Spacer	X	2								
7	AN970-3	Washer	X	2								
8	MS21042L08	Nut	X	2								
9	B204-3	Rivet**	X	10								
10	A913-1	Strip**	X	2								
11	B219-4*	Strap Assembly	X	1								
12	NAS1149FN616P	Washer**	X	10								
13	A913-2	Strip**	X	2								
14	B219-3*	Pocket Assembly** (2-piece hook and loop)	X	1								
15	B219-6*	Strap Assembly** (loop)	X	1								
16	B219-5*	Pocket Assembly** (2-piece hook and loop)	X	1								
17	B219-7*	Strap Assembly** (hook)	X	1								
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GR</td><td>Gray</td></tr><tr><td>TN</td><td>Tan</td></tr><tr><td>BLK</td><td>Black</td></tr></table>					Code	Definition	GR	Gray	TN	Tan	BLK	Black
Code	Definition											
GR	Gray											
TN	Tan											
BLK	Black											
NOTES * Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, B219-4 in black, order "B219-4BLK".												
** Earlier R44s.												

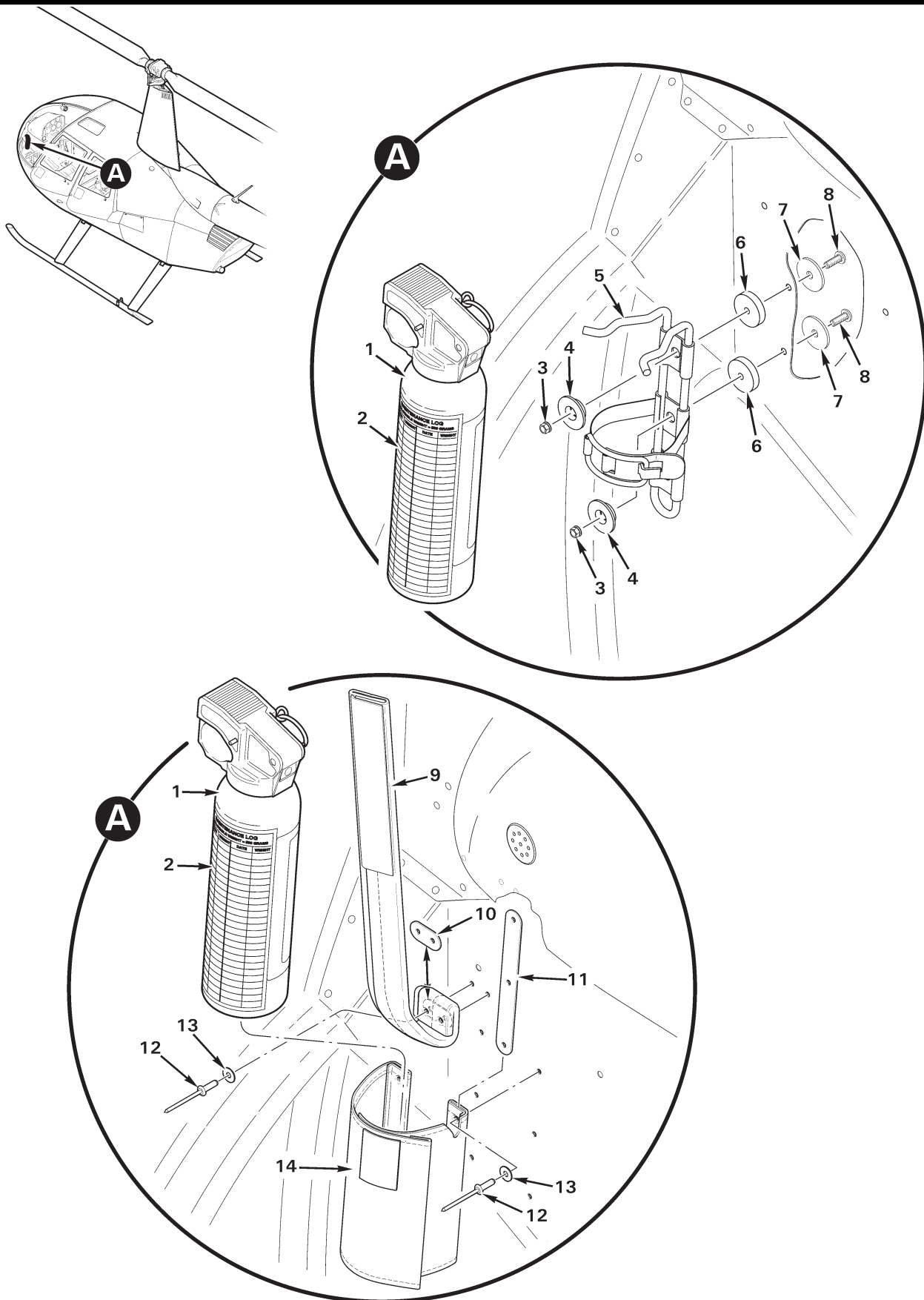


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY								
25-41-1	B381-1	FIRE EXTINGUISHER INSTALLATION										
		Fire Extinguisher Assembly (includes RT-A400 Fire Extinguisher and item 2)	X	1								
	RT-A400	Fire Extinguisher (14-oz. capacity)	O	1								
	2 G654-15	Decal – Maintenance Log	X	1								
	3 MS21042L08	Nut	X	2								
	4 G220-1	Retainer	X	2								
	5 B381-3	Bracket	X	1								
	6 C130-54	Spacer	X	2								
	7 AN970-3	Washer	X	2								
	8 MS27039C0810	Screw	X	2								
	9 B219-4*	Strap Assembly**	X	1								
	10 A913-2	Strip**	X	1								
	11 A913-1	Strip**	X	2								
	12 B204-2	Rivet	X	8								
	13 NAS1149FN616P	Washer	X	8								
14 B219-3*	Pocket Assembly**	X	1									
<table><tr><th>Code</th><th>Definition</th></tr><tr><td>GR</td><td>Gray</td></tr><tr><td>TN</td><td>Tan</td></tr><tr><td>BLK</td><td>Black</td></tr></table>					Code	Definition	GR	Gray	TN	Tan	BLK	Black
Code	Definition											
GR	Gray											
TN	Tan											
BLK	Black											
NOTES * Refer to <i>chart</i> at the end of parts list when ordering. Include code after dash no., for example, B219-4 in black, order “B219-4BLK”.												
** Earlier R44s.												

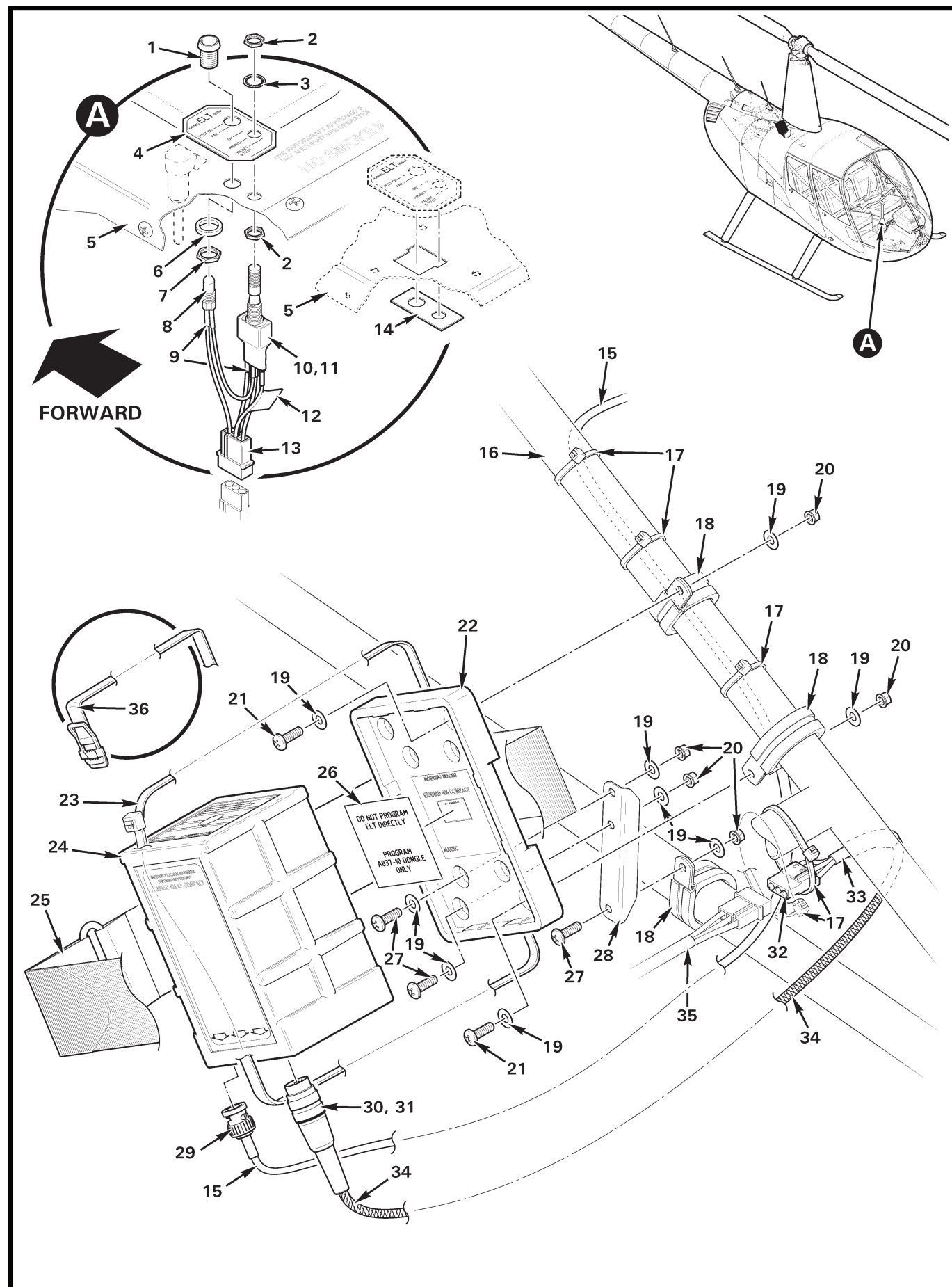


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		KANNAD ELT INSTALLATION*		
25-41B-1	—	Mount – LED	O	1
2	—	Nut	O	2
3	—	Lockwasher	O	1
4	—	Panel	O	1
5	C444	Cover – Cyclic (Ref; current and previous [dashed] configurations)		
6	—	Ring	O	1
7	—	Nut	O	1
8	—	LED (bi-polar, red)	O	1
9	B158-1	Heat Shrink	X	A/R
10	—	Switch (remote control, 3-position, locking)	O	1
11	F837-3	Switch Assembly (On, Reset; includes items 1 thru 4, 6 thru 10, 12, 13, and wires; assembled)	X	1
12	—	Production Stamp	O	1
13	B263-14	Housing	X	1
	B263-1	Pin	X	3
14	A837-3**	Plate – Backing	X	1
15	B274-518	Cable – Coaxial	X	A/R
16	C020	Frame – Upper (Ref)		
17	MS3367-5-9	Ty-Rap	X	A/R
18	MS21919WDG16	Clamp	X	3
19	NAS1149F0316P	Washer	X	8
20	D210-3	Nut	X	5
21	MS27039C1-08	Screw	X	2
22	S1840502-01***	Bracket – Mount (ELT)	X	1
23	MS3367-6-0	Ty-rap	X	1
24	S1851501-02***	ELT (Integra 406 AF-H)	X	1
25	—	Strap (included with item 24)	O	1
26	F654-25	Decal (dongle programming instructions)	X	1
27	MS27039C1-07	Screw	X	3
28	C837-5	Angle	X	1
29	5225395-6	Plug (BNC)	X	1
NOTES * Optional Equipment. Refer to KI-179-6 and KI-179-8 for field installations. ** Earlier R44s. *** Kannad part no.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		KANNAD ELT INSTALLATION (Cont'd)		
25-41B-30	A837-10	Harness Assembly (Incl items 31 thru 34, and wires; assembled)	X	1
31	S1820514-01*	Dongle (requires programming)	O	1
32	B263-15	Housing	X	1
	B263-2	Socket	X	3
33	B158-3	Heat Shrink	X	A/R
	B158-1**	Heat Shrink (this location)	X	A/R
34	B266-4	Sleeving	X	A/R
35	C859 or C059	Harness Assembly (Ref)		
36	D693-4**	Strap Assembly	O	1

37	KI-179-6	R44 Kannad AF Integra Kit (optional)	X	A/R
38	KI-179-8	R44 Kannad AF Integra Provision Kit (does not include ELT; optional)	X	A/R
NOTES * Kannad part no. ** Earlier R44s.				

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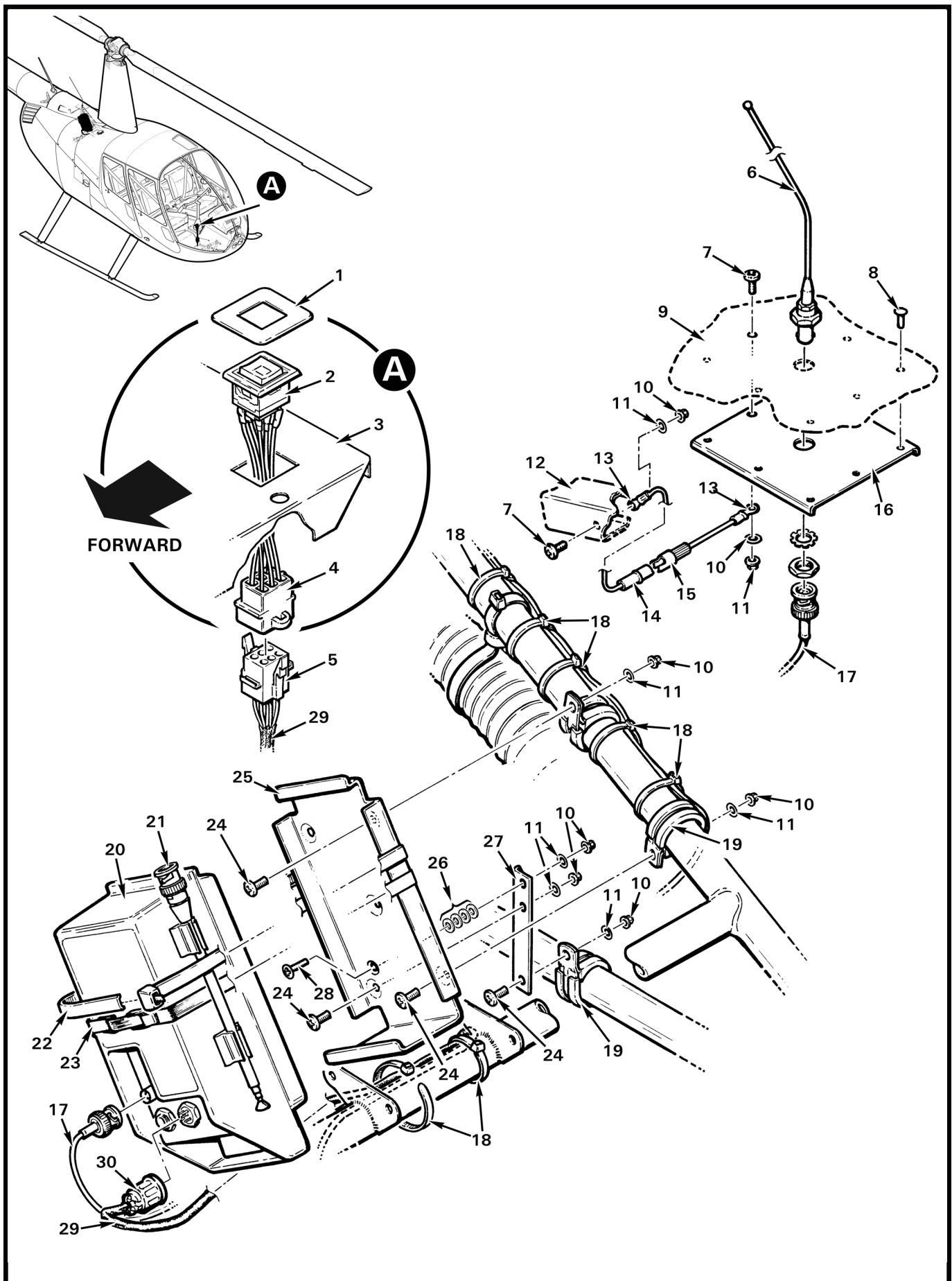


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		POINTER ELT AND ANTENNA INSTALLATION		
25-45-1	—	Decal – “On, Reset”	O	1
2	C830-1A	Switch Sub-Assembly (On, Reset; includes MLW-3029* switch, heat shrink, wires, and item 1)	X	1
3	C444	Cover – Cyclic (Ref, see also Figure 67-1)		
4	B263-18	Housing	X	1
	B263-1	Pin	X	6
5	B263-19	Housing	X	1
	B263-2	Socket	X	6
6	3001*	Antenna (external mount, includes nut and washer)	O	1
7	MS27039C0806	Screw	X	2
8	MS20470AD3-4	Rivet	X	7
9	C706-1	Cowling (Ref, see Figure 53-13)		
10	MS21042L08	Nut	X	7
11	NAS1149FN816P	Washer	X	7
12	C245-1	Channel – Aux Tank Assembly (Ref)		
13	B260-3	Terminal	X	2
14	B263-11	Housing	X	1
	B263-2	Socket	X	1
15	B263-10	Housing	X	1
	B263-1	Pin	X	1
16	A830-3	Doubler	X	1
17	3002*	Cable – Antenna (coax)	O	1
18	MS3367-5-9	Ty-Rap	X	A/R
19	MS21919WDG16	Clamp	X	3
20	3000-10*	ELT Unit (U.S. and other areas except Canada)	O	1
	4000-10*	ELT Unit	O	1
21	2006*	Antenna (secondary; telescopic)	O	1
22	B359-1	Ty-Rap	O	1
23	—	Strap	O	1
24	MS27039C0807	Screw	X	4
25	—	Mounting Bracket	O	1

NOTES * Pointer part no.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		POINTER ELT AND ANTENNA INSTALLATION (Cont'd)		
25-45-26	NAS1149FN832P	Washer	X	4
27	C830-3	Angle	X	1
28	MS24694-S5	Screw	X	1
29	KI-89C	Wire Harness (Incl items 30 thru 32, wires, and wire shield/ jacket)	O	1
30	126-223*	Connector	O	1
31	B267-3**	Terminator	X	1
32	B158-1**	Heat Shrink (3/32 in. dia.)	X	A/R
	B158-3**	Heat Shrink (3/16 in. dia.)	X	A/R
NOTES * Pointer part no. ** Not shown.				

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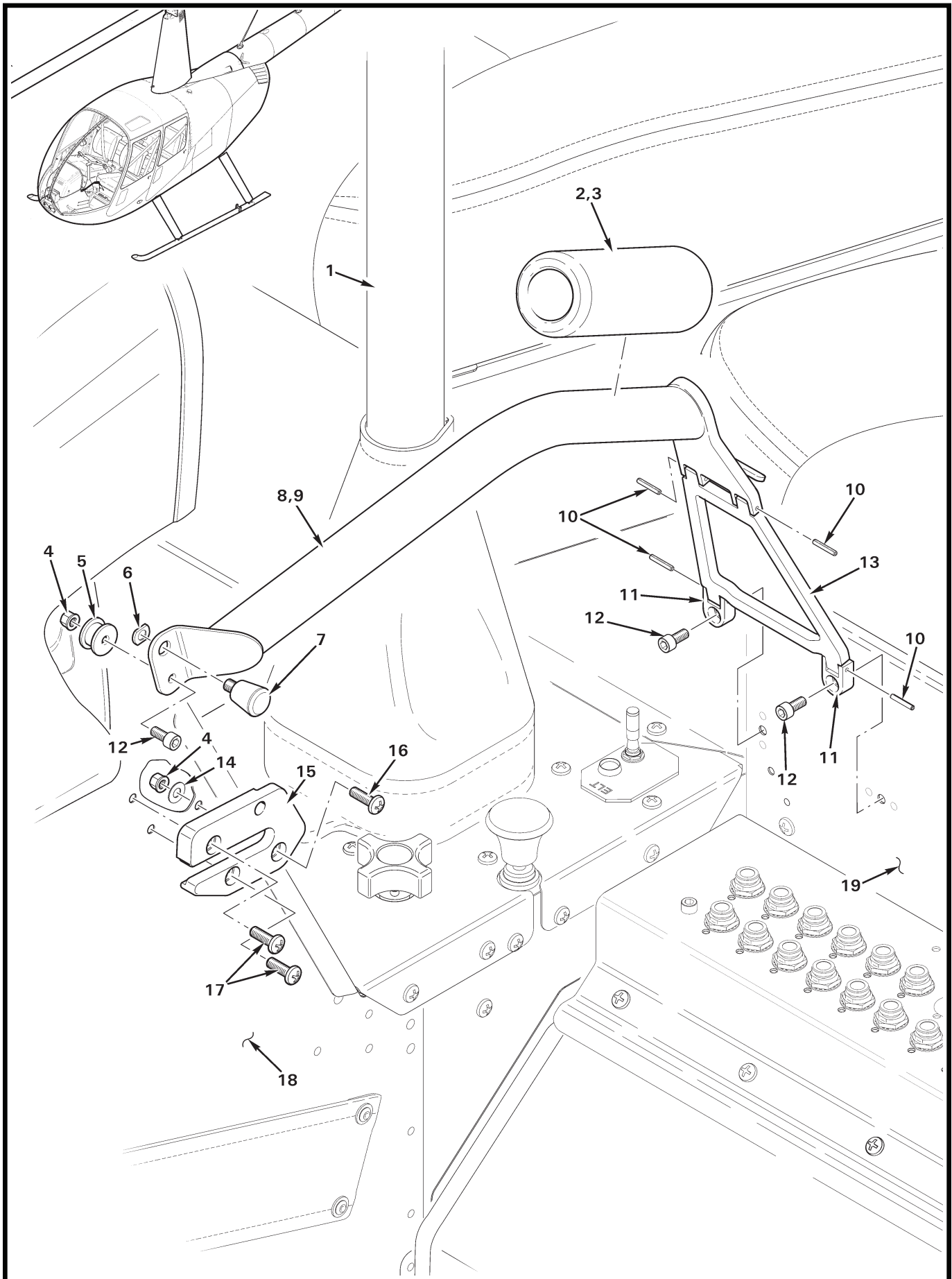


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GUARD ASSEMBLY INSTALLATION		
25-49-1	C069	Cyclic Control Assembly (Ref)		
2	A601-2	Grip (install using item 3)	X	1
3	B270-15	Adhesive	X	A/R
4	MS21042L08	Nut	X	2
5	G722-7	Latch	X	1
6	—	Washer (threaded)	O	1
7	56-99-196-20	Plunger (Incl item 6)	X	1
8	G721-1	Handle Assembly (Incl items 2 thru 5, 7, and 9 thru 13).	X	1
9	G721-2	Weldment	X	1
10	MS16562-15	Spring Pin	X	4
11	G722-5	Mount	X	2
12	NAS1352-08-6	Screw	X	3
13	G722-4	Support – Lower	X	1
14	NAS1149FN816P	Washer	X	1
15	G722-6	Plate	X	1
16	MS27039C0807	Screw	X	1
17	MS27039C0808	Screw	X	2
18	C033	Console Assembly – Lower (Ref)		
19	C297-5	Support Assembly (LH, forward; Ref)		
NOTES * Optional equipment. Refer to KI-280 for field installation.				

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CHAPTER 28**FUEL SYSTEM**

<i>Figure</i>	<i>Title</i>	<i>Page</i>
28-1	Fuel System Installation	28.0
28-5	Fuel System Installation	28.4
28-9	Main Tank Assembly	28.8
28-11	Main Tank Assembly	28.10
28-13	Auxiliary Tank Assembly	28.12
28-17	Fuel Shut-Off Valve Installation	28.16
28-19	Gascolator Assembly	28.18
28-21	Electric Fuel Pump Installation	28.20
28-25	Electric Fuel Pump Installation	28.24
28-29	Fuel Control (Servo) Installation	28.28
28-33	Return Hose Installation	28.32
28-35	Intake Manifold Drain Installation	28.34
28-37	Primer System	28.36
28-41	Primer Pump Installation	28.40

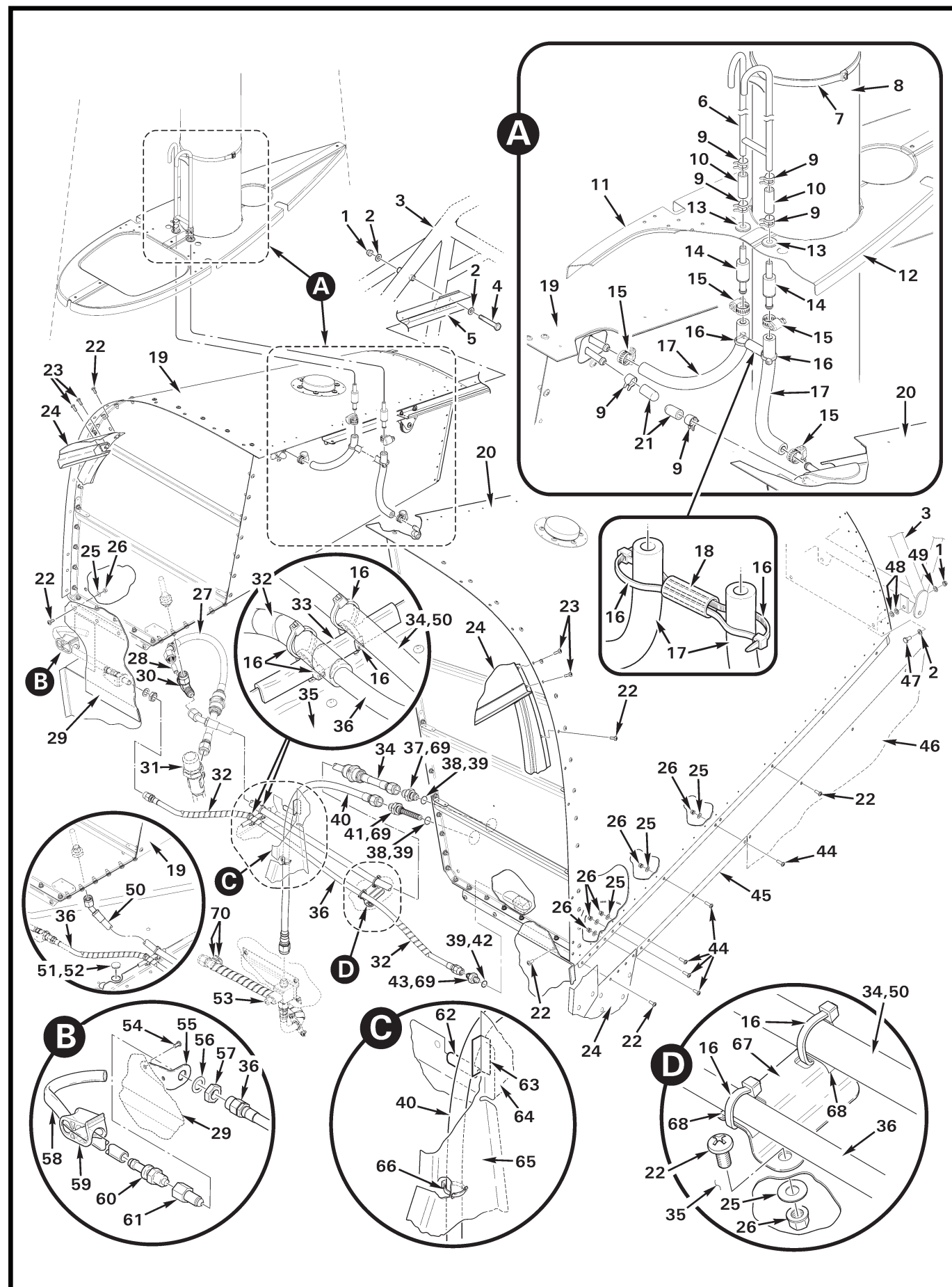


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SYSTEM INSTALLATION		
28-1-1	D210-4	Nut	X	3
2	NAS1149F0432P	Washer	X	3
3	C020-1	Upper Frame Assembly (Ref)		
4	NAS6604-22	Bolt	X	1
5	C245-1	Channel (Ref)		
6	A731-10	Tube Assembly	X	1
7	MS3367-6-0	Ty-Rap	X	1
8	C006	Main Rotor Gearbox Assembly (Ref)		
9	D277-6	Clamp	X	A/R
10	A729-79	Tube	X	2
11	C261-14*	Rib Assembly – Lower (RH, small mast; Ref)		
	C261-20*	Rib Assembly – Lower (RH, large mast; Ref, not shown)		
12	C261-13*	Rib Assembly – Lower (LH, small mast; Ref)		
	C261-19*	Rib Assembly – Lower (LH, large mast; Ref, not shown)		
13	MS35489-6	Grommet (Ref)		
14	D251-1	Valve Assembly – Rollover (Vent)	X	2
15	B277-4	Clamp	X	6
16	MS3367-4-9	Ty-Rap	X	8
17	A729-48	Tube	X	2
18	A729-63	Tube	X	1
19	D043-5	Auxiliary Tank Assembly (Ref, see Figure 28-13)		
20	C010-6	Main Fuel Tank Assembly (Ref, see Figure 28-9)		
21	A457-19	Cap (earlier R44s, if lower vent is present)	X	2
22	MS27039C0806	Screw	X	23
23	MS27039C0808	Screw	X	4
24	C015	Cabin Assembly (Ref)		
25	NAS1149FN816P	Washer	X	10
26	MS21042L08	Nut	X	10
27	C595-4	Hose Assembly (IO-540 ships)	X	1
28	D453-5	Jet (IO-540 ships)	X	1
29	C259-2	Panel - Bulkhead (RH, Ref)		
30	D453-4	Tee (IO-540 ships)	X	1
31	D321-1	Valve Assembly (IO-540 ships, see Figure 28-33; Ref)		
32	B161-4	Spirap	X	A/R
33	A226-11	Trim	X	A/R

NOTES * See Figure 53-11 for mast fairing assembly.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SYSTEM INSTALLATION (Cont'd)		
28-1-34	C595-3	Hose Assembly (IO-540 ships)	X	1
35	C234-1	Firewall (Ref, LH fwd horizontal)		
36	D205-30	Hose Assembly	X	1
37	A880-936*	Union (or A880-966)	X	1
38	MS29512-06	Packing (install using item 39)	X	2
39	A257-6	Grease	X	A/R
40	D205-38	Hose Assembly	X	1
41	B254-3	Strainer Assembly – Fuel	X	1
42	MS29512-03	Packing (install using item 39)	X	1
43	A880-933*	Union (or A880-963)	X	1
44	MS27039C0807	Screw	X	4
45	C380-7	Strip (Ref; LH)		
	C364-6	Strip (Ref; RH, not shown)		
46	C377-1	Cowling Assembly (Ref, LH)		
47	NAS6604-2	Bolt	X	2
48	NAS1149F0432P	Washer (or NAS1149D0416J; as required to fill gap between tank assembly and frame)	X	A/R
49	NAS1149F0463P	Washer (or NAS1149F0432P)	X	2
50	C595-2	Hose Assembly (O-540 ships)	X	1
51	B209-7	Plug (O-540 ships; install using item 52)	X	1
52	B270-1	Sealant	X	A/R
53	C670-1	Shut-Off Valve – Fuel (Ref)		
54	MS20470AD3	Rivet	X	2
55	D255-2	Angle	X	1
56	NAS1149F0632P	Washer	X	1
57	A880-1003	Nut	X	1
58	A729-17	Tube	X	1
59	D663-1	Clamp	X	1
60	A761-1	Drain Valve	X	1
61	D255-1	Connector	X	1
62	A226-15	Trim	X	A/R
63	A701-1	Tape – Aluminum	X	A/R
64	C259-1	Panel - Bulkhead (LH, Ref)		
65	C351-1	Brace (Ref)		
66	MS3367-5-9	Ty-Rap	X	1

NOTES * Apply item 69 to threads.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SYSTEM INSTALLATION (Cont'd)		
28-1-67	D255-5	Support Assembly	X	1
68	A701-3	Tape – Urethane (0.3125" wide)	X	1
69	A457-9	Anti-seize	X	A/R
70	B161-8	Spirap (IO-540 ships)	X	A/R
NOTES				

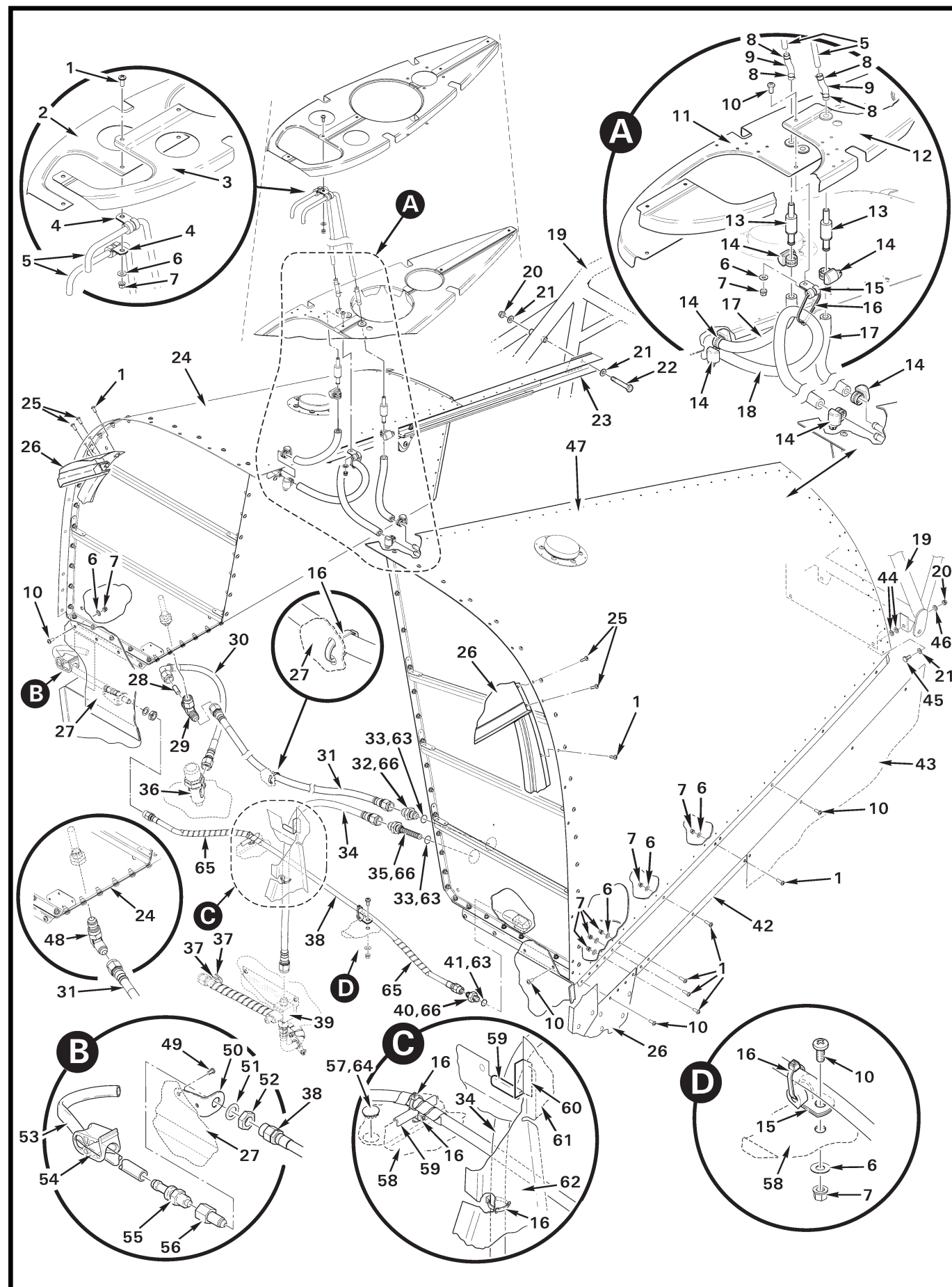


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SYSTEM INSTALLATION		
28-5-1	MS27039C0807	Screw	X	35
2	C261-18*	Rib Assembly – Middle (RH, Ref)		
3	C261-17*	Rib Assembly – Middle (LH, Ref)		
4	MS21919WDG4	Clamp	X	2
5	C731-2	Line – Vent (earlier R44s)	X	2
6	NAS1149FN816P	Washer	X	15
7	MS21042L08	Nut	X	15
8	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
9	A729-47	Tube (earlier R44s).	X	2
10	MS27039C0806	Screw	X	15
11	C261-14*	Rib Assembly – Lower (RH, small mast; Ref)		
	C261-20*	Rib Assembly – Lower (RH, large mast; Ref, not shown)		
12	C261-13*	Rib Assembly – Lower (LH, small mast; Ref)		
	C261-19*	Rib Assembly – Lower (LH, large mast; Ref, not shown)		
13	D251-1	Valve Assembly – Rollover (Vent)	X	2
14	B277-4	Clamp	X	6
15	MS21919WDG3	Clamp	X	2
16	MS3367-5-9	Ty-Rap	X	A/R
17	A729-48	Tube	X	2
18	A729-49	Tube (earlier R44s).	X	1
19	C020-1	Upper Frame Assembly (Ref)		
20	D210-4	Nut	X	3
21	NAS1149F0432P	Washer	X	4
22	NAS6604-22	Bolt	X	1
23	C245-1	Channel (Ref)		
24	D043-5	Auxiliary Tank Assembly (Ref, see Figure 28-9)		
25	MS27039C0808	Screw	X	4
26	C015	Cabin Assembly (Ref)		
27	C259-2	Panel - Bulkhead (RH, Ref)		
28	D453-2	Jet (IO-540 ships; earlier R44s)	X	1
29	D453-3	Tee (IO-540 ships; earlier R44s)	X	1
30	D205-31	Hose Assembly IO-540 ships; earlier R44s)	X	1
31	D205-29	Hose Assembly (earlier R44s)	X	1
32	A880-936**	Union (or A880-966)	X	1
33	MS29512-06	Packing (install using item 63)	X	1
NOTES * See Figure 53-11 for mast fairing assembly. ** Apply item 66 to threads.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SYSTEM INSTALLATION (Cont'd)		
28-5-34	D205-28	Hose Assembly	X	1
35	B254-3	Strainer Assembly – Fuel (Ref)		
36	D321-1	Valve Assembly (IO-540 ships, see Figure 28-33; Ref)		
37	B161-8	Spirap (IO-540 ships)	X	A/R
38	D205-30	Hose Assembly	X	1
39	C670-1	Shut-Off Valve – Fuel (Ref)		
40	A880-933*	Union (or A880-963)	X	1
41	MS29512-03	Packing (lubricate using item 63)	X	1
42	C380-7	Strip (Ref; LH)		
	C364-6	Strip (Ref; RH, not shown)		
43	C377-1	Cowling Assembly (Ref, LH)		
44	NAS1149F0432P	Washer (or NAS1149D0416J as required to fill gap between tank assembly and frame)	X	A/R
45	NAS6604-2	Bolt	X	2
46	NAS1149F0463P	Washer (or NAS1149F0432P)	X	2
47	C010-6	Main Fuel Tank Assembly (Ref, see Figure 28-9)		
48	A457-12	Elbow (O-540 ships)	X	1
49	MS20470AD3	Rivet	X	2
50	D255-2	Angle	X	1
51	NAS1149F0632P	Washer	X	1
52	A880-1003	Nut	X	1
53	A729-17	Tube	X	1
54	D663-1	Clamp	X	1
55	A761-1	Drain Valve	X	1
56	D255-1	Connector	X	1
57	B209-7	Plug (O-540 ships; seal using item 64)	X	1
58	C234-1	Firewall – Horizontal (Ref)		
59	A226-11	Trim	X	A/R
60	A701-1	Tape – Aluminum	X	A/R
61	C259-1	Panel - Bulkhead (LH, Ref)		
62	C351-1	Brace (Ref)		
63	A257-6	Grease	X	A/R
64	B270-1	Sealant	X	A/R
65	B161-4	Spirap	X	A/R
66	A457-9	Anti-seize	X	A/R

NOTES * Apply item 66 to threads.

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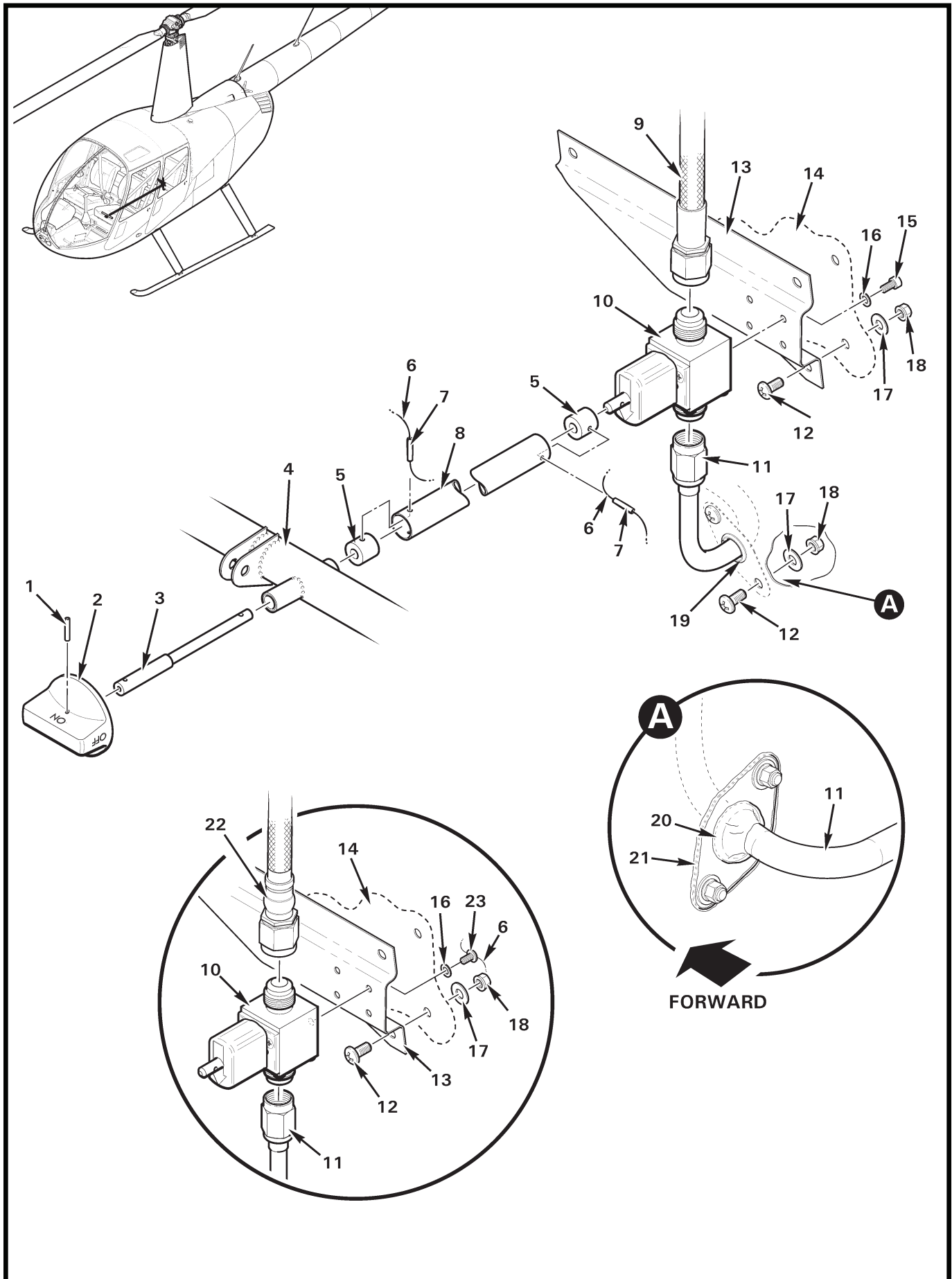


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FUEL SHUT-OFF VALVE INSTALLATION		
28-17-1	MS16562-5	Spring Pin	X	1
2	C499-1	Knob	X	1
3	C791-3	Shaft	X	1
4	C348-1	Anchor Assembly (collective stop)	X	1
5	C791-4	Spacer	X	2
6	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
7	MS16562-16	Spring Pin	X	2
8	C791-2	Tube	X	1
9	D205-38	Hose Assembly	X	1
10	C670-1	Fuel Valve	X	1
11	C741-1	Fuel Line Assembly	X	1
12	MS27039C0805	Screw	X	3
13	C798-3	Bracket (supersedes C798-2)	X	1
14	C233-1	Vertical Firewall (Ref)		
15	NAS1352-04LB3P	Screw (or NAS1352-04LE3P)	X	4
16	NAS620-4	Washer	X	4
17	NAS1149FN832P	Washer	X	4
18	MS21042L08	Nut	X	4
19	NAS557-8A	Grommet	X	1
20	B270-5	Sealant (7.5-oz. tube)	X	A/R
21	B270-1	Sealant (2-part)	X	A/R
22	D205-28	Hose Assembly (earlier R44s)	X	1
23	AN500A4-3	Screw (earlier R44s)	X	4
NOTES				

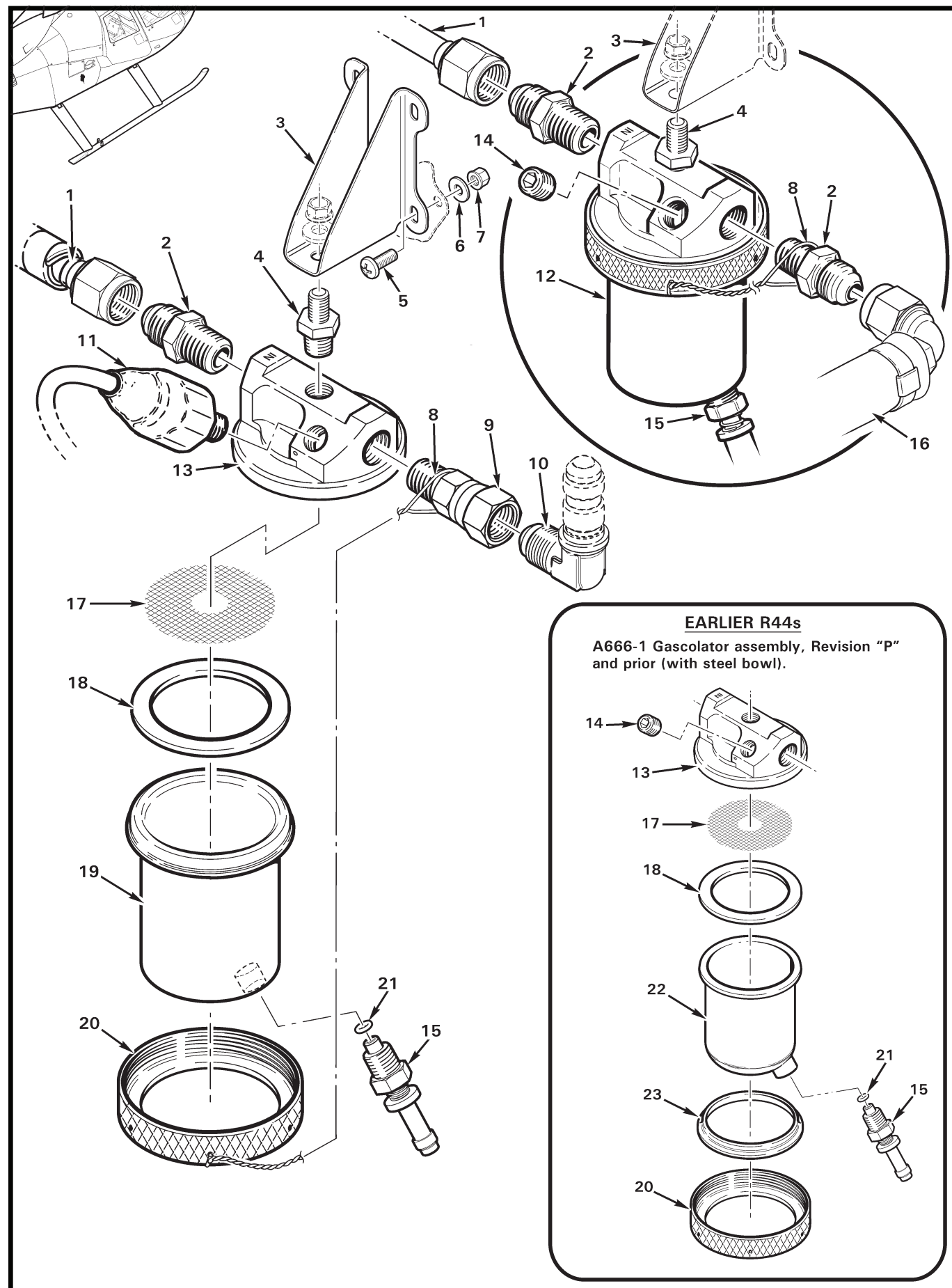
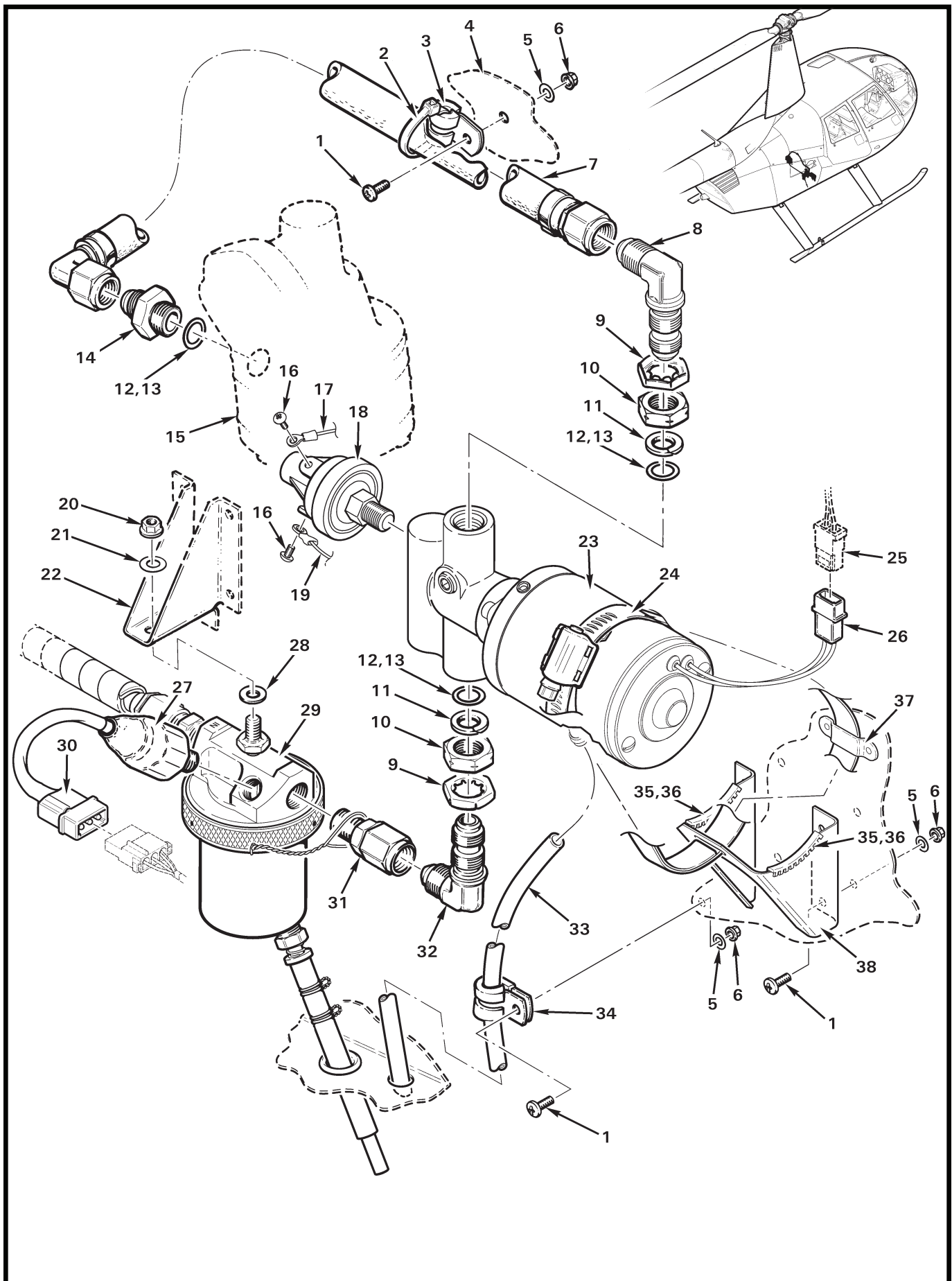


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		GASCOLATOR ASSEMBLY		
28-19-1	C741-1	Line Assembly (Ref)		
2	A880-536	Adapter*** (or A880-566)	X	A/R
3	A454-1	Support	X	1
4	A455-1	Plug***	X	1
5	MS27039C0806	Screw	X	4
6	NAS1149FN832P	Washer	X	4
7	MS21042L08	Nut	X	4
8	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
9	A457-11 *	Adapter (Ref; IO-540 ships)		
	6505-04-06-SS *	Adapter (Ref, see also Figures 28-21 and 28-25; IO-540 ships)		
10	A880-836 *	Elbow (or A880-866; Ref, IO-540 ships)		
11	D745-1	Switch Assembly (Ref; IO-540 ships)		
12	A666-1	Gascolator Assembly (Revision "Q" and subsequent. Includes items 4, 13, 15, 17 thru 20, and 24.)	X	1
13	B402-3	Top	O	1
14	MS27769D2 *	Plug (O-540 ships)	X	1
15	A761-1 *	Drain Valve – Gascolator (Incl item 21)	X	1
	CAV-110H-4 **	Drain Valve – Gascolator	O	1
16	B283-3	Hose Assembly (Ref, see also Figures 28-21 and 28-25)		
17	10543-2	Screen	X	1
18	10536-1	Gasket (supersedes 10536)	X	1
19	B416-3	Bowl (aluminum)	X	1
20	B416-1	Collar	O	1
21	A215-006	O-Ring	X	1
22	10541	Bowl (steel)	X	1
23	B416-2	Ring (Ref)		
24	B270-6	Sealant	X	A/R
NOTES * Install using item 24. ** Saf-Air part no., installed in A666-1 gascolator assembly. Order A761-1 when replacing valve.				



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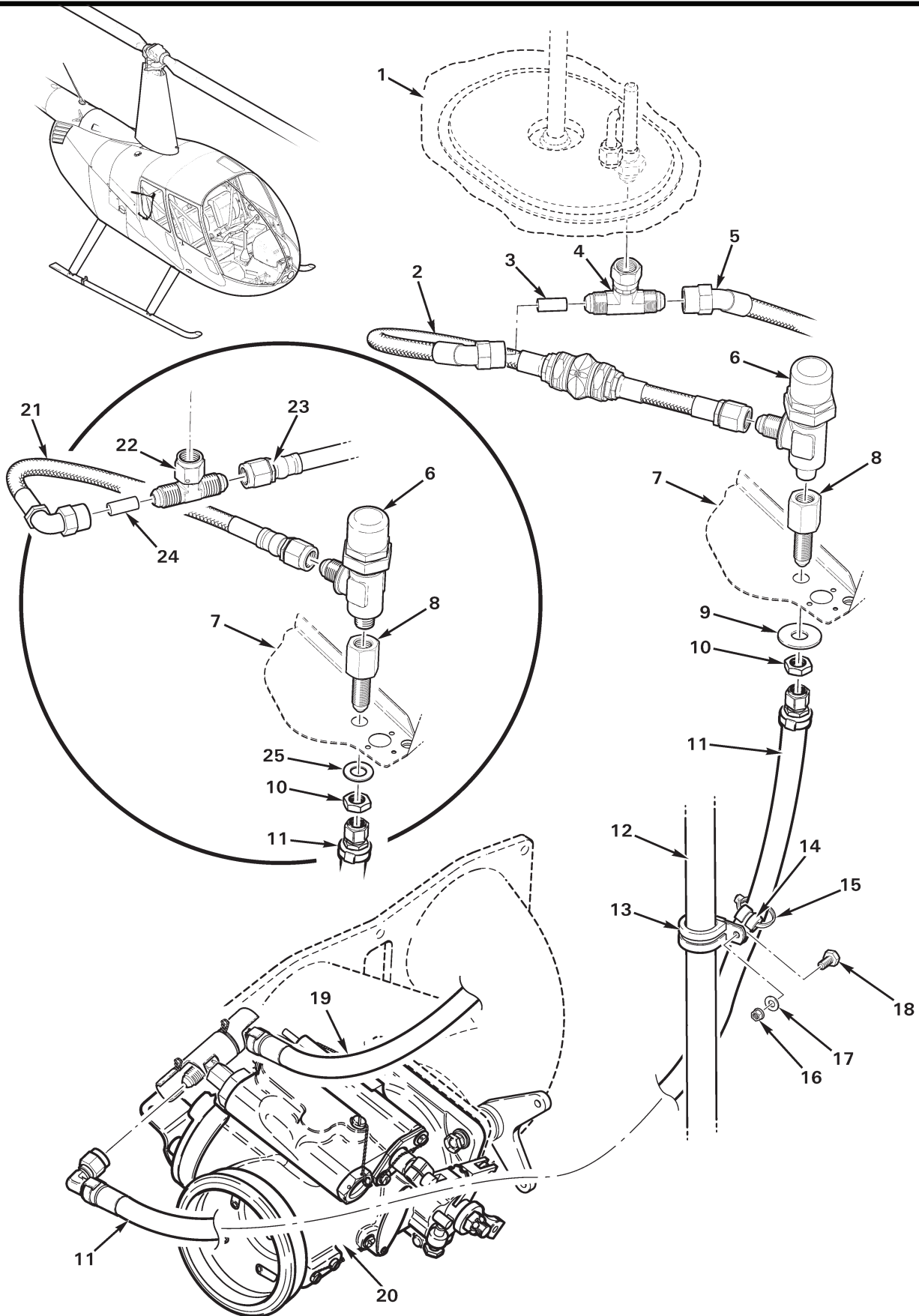


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		RETURN HOSE INSTALLATION*		
28-33-1	D043-5	Aux Fuel Tank Assembly (Ref)		
2	C595-4	Hose Assembly (Ref)		
3	D453-5	Jet (Ref)		
4	D453-4	Tee	X	1
5	C595-3	Hose Assembly (Ref)		
6	D321-1	Valve Assembly – Pressure Relief	X	1
7	C234-1	Firewall – Horizontal (Ref)		
8	A457-13	Connector	X	1
	2705-04-04	Connector	O	1
	4-4WGTX-S	Connector	O	1
9	C141-5	Washer	X	1
10	AN316-7R	Nut	X	1
11	B283-11	Hose Assembly (fuel return)	X	1
12	C046-2	Lower Frame Assembly (RH, Ref)		
13	MS21919WDG14	Clamp	X	1
14	MS21919WDG3	Clamp	X	1
15	MS3367-5-9	Ty-Rap	X	1
16	D210-3	Nut	X	1
17	NAS1149F0332P	Washer	X	1
18	AN3-3A	Bolt	X	1
19	B283-10	Hose Assembly (inlet, from engine driven fuel pump; Ref)		
20	AV2576630-4	Fuel Control (Ref)		
	2576630-4	Fuel Control (Ref)		
21	D205-31	Hose Assembly (Ref)		
22	D453-3	Tee	X	1
23	D205-29	Hose Assembly (Ref)		
24	D453-2	Jet (Ref)		
25	NAS1149F0732P	Washer	X	1
NOTES * Ship S/N 10001 thru 29999.				

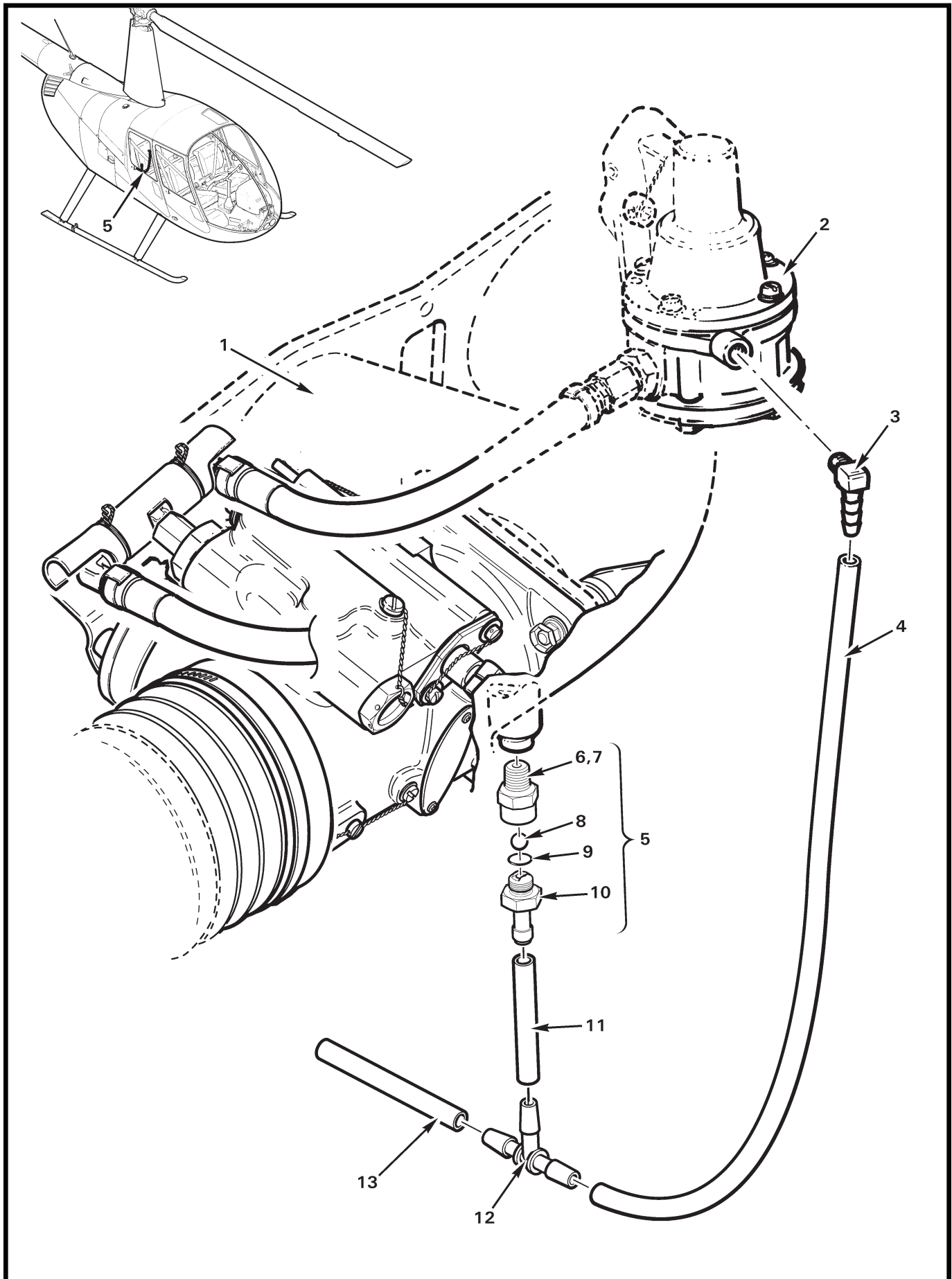


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		INTAKE MANIFOLD DRAIN INSTALLATION*		
28-35-1	D730-1	Manifold Weldment (Ref)		
2	62B26931**	Fuel Pump – Mechanical (Ref)		
	LW-15473**	Fuel Pump – Mechanical (Ref)		
3	A457-10	Elbow	X	1
	129HB-4-2	Elbow (superseded by A457-10)	O	1
4	A729-34	Tube	X	1
5	D775-1	Drain Valve – Fuel (Incl items 7 thru 10; apply item 6 to pipe threads)	X	1
6	B270-6	Sealant	X	A/R
7	D775-2	Housing	X	1
8	B208-4	Ball	X	1
9	MS28775-011	Packing	X	1
10	D775-3	Drain (torque to 90 in.-lb)	X	1
11	A729-35	Tube	X	1
12	A457-6	Tee	X	1
13	A729-36	Tube	X	1
NOTES * Ship S/N 10001 thru 29999. ** Lycoming part no.				

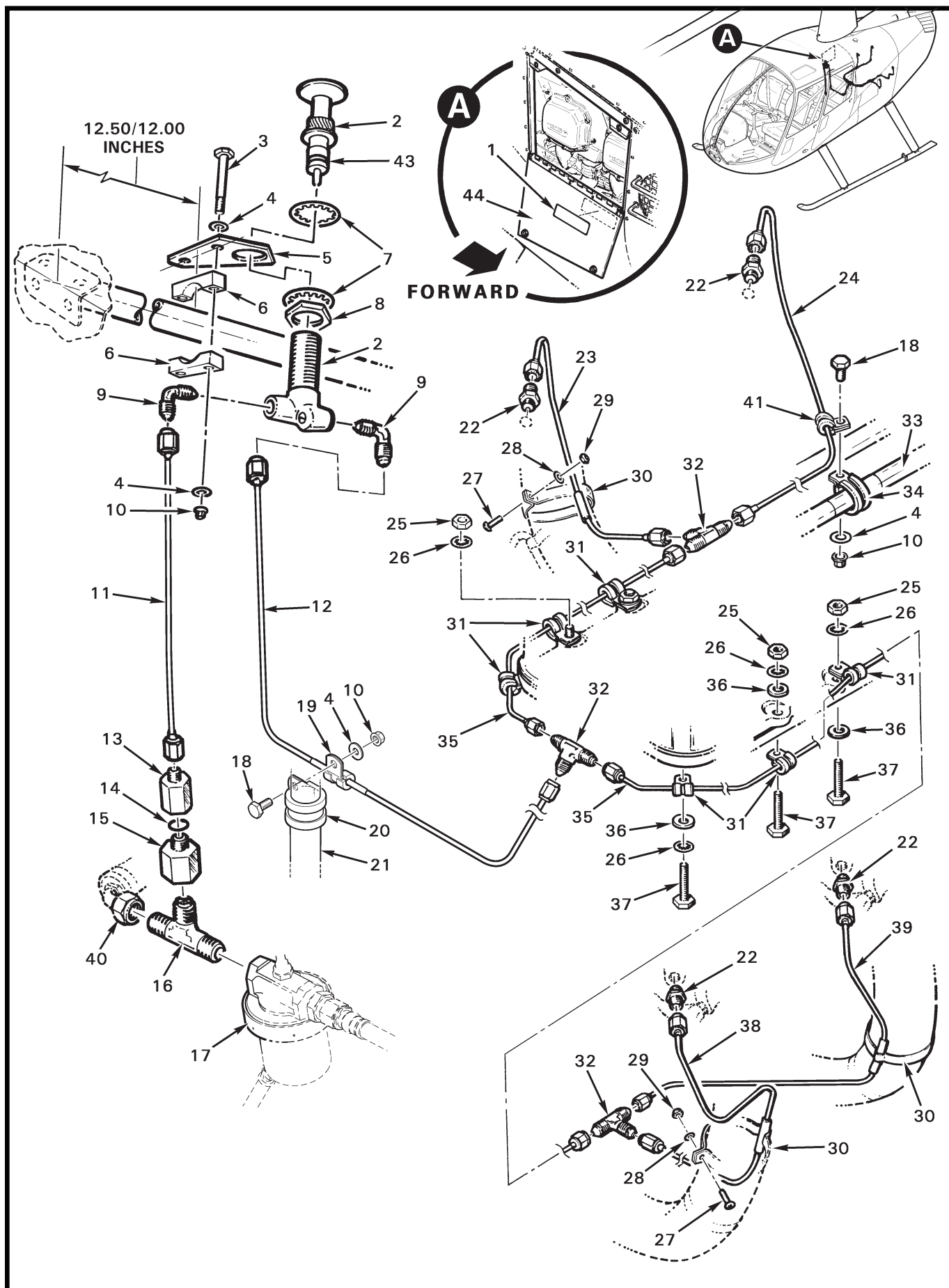


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRIMER SYSTEM*		
28-37-1	C654-49	Decal ("Caution")	X	1
2	10950	Pump (Incl item 8 and 43)	X	1
3	NAS6603-26	Bolt	X	2
4	NAS1149F0332P	Washer	X	6
5	D420-3	Plate	X	1
6	D420-1	Block	X	2
7	MS35333-46	Lockwasher	X	2
8	—	Nut	O	1
9	A880-602	Elbow (install using item 42)	X	2
10	D210-3	Nut	X	6
11	D101-3	Line Assembly	X	1
12	D102-4	Line Assembly	X	1
13	AN894D4-2	Bushing	X	1
14	MS29512-4	Gasket	X	1
15	AN894D6-4	Bushing	X	1
16	A880-1136	Tee (or A880-1166; install using item 42)	X	1
17	A666-1	Gascolator (Ref)		
18	AN3-3A	Bolt	X	1
19	MS21919WDG4	Clamp	X	1
20	MS21919WDG12	Clamp	X	1
21	C727-2	Engine Breather Tube (Ref)		
	C728-2	Separator Assembly (Ref, not shown)		
22	B310-2	Injector	X	4
23	D104-3	Line Assembly	X	1
24	D105-3	Line Assembly	X	1
25	—	Nut (Ref; supplied with engine)		
26	—	Lockwasher (Ref; supplied with engine)		
27	MS35206-230	Screw	X	3
28	NAS1149FN616P	Washer	X	3
29	MS21042L06	Nut	X	3
30	LW-18959-175-25**	Clamp	X	3

NOTES * Frame-mounted primer pump, ship S/N 0358 and subsequent.

** Lycoming part no.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		PRIMER SYSTEM* (Cont'd)		
28-37-31	MS21333-96	Clamp (install using items 25, 26, 36, and 37 as required) . . .	X	6
32	MS24402-2D	Tee	X	3
33	A723-16	Oil Line (Ref)		
	A723-10	Oil Line (Ref; superseded by A723-16)		
34	MS21919WCH8	Clamp	X	1
35	D103-3	Line Assembly	X	2
36	—	Washer – Flat (Ref, supplied with engine)		
37	—	Bolt (Ref, supplied with engine)		
38	D106-3	Line Assembly	X	1
39	D107-3	Line Assembly	X	1
40	B283-3	Hose Assembly – Fuel (Ref, see also Figures 28-21 and 28-25)		
41	MS21919WDG2	Clamp	X	1
42	B270-6	Sealant	X	A/R
43	—	O-Ring	O	2
44	C364-7	Door – Cowl (Ref)		
		* * *		
45	KI-127	R44 Primer Pump Location Upgrade Kit (Fuel Primer; Ship S/N 0001 thru 0357. Includes items 1 thru 7, 9 thru 12, 18 thru 20, 28, 29, 42, and 46 thru 51.)	X	1
46	2590**	Hole Plug	X	10
47	2617**	Hole Plug	X	1
48	2633**	Hole Plug	X	1
49	A231-5**	Cover	X	1
50	A231-8**	Retainer	X	1
51	MS35206-227**	Screw	X	1
NOTES * Frame-mounted primer pump, ship S/N 0358 and subsequent. ** Not shown; included in KI-127 kit.				

CHAPTER 32

LANDING GEAR

<i>Figure</i>	<i>Title</i>	<i>Page</i>
32-1	Landing Gear Assembly	32.0
32-5	Landing Gear Assembly	32.4
32-9	Strut Fairing Installation	32.8
32-11	Strut Fairing Installation	32.10
32-11B	Landing Gear Lug – Extension Installation	32.11
32-13	Pop-Out Floats – Cylinder Assembly Installation	32.12
32-15	Pop-Out Floats – Cylinder Assembly Installation	32.14
32-17	Pop-Out Floats – Lever Assembly	32.16
32-19	Pop-Out Floats – Tube Assemblies Installation	32.18
32-23	Pop-Out Floats – Tube Assembly Components	32.22
32-25	Pop-Out Floats – Tube Assembly Components	32.24
32-27	Pop-Out Floats – Hoses Installation	32.26
32-29	Fixed Floats – Tube Assemblies Installation	32.28
32-33	Fixed Floats – Components	32.32

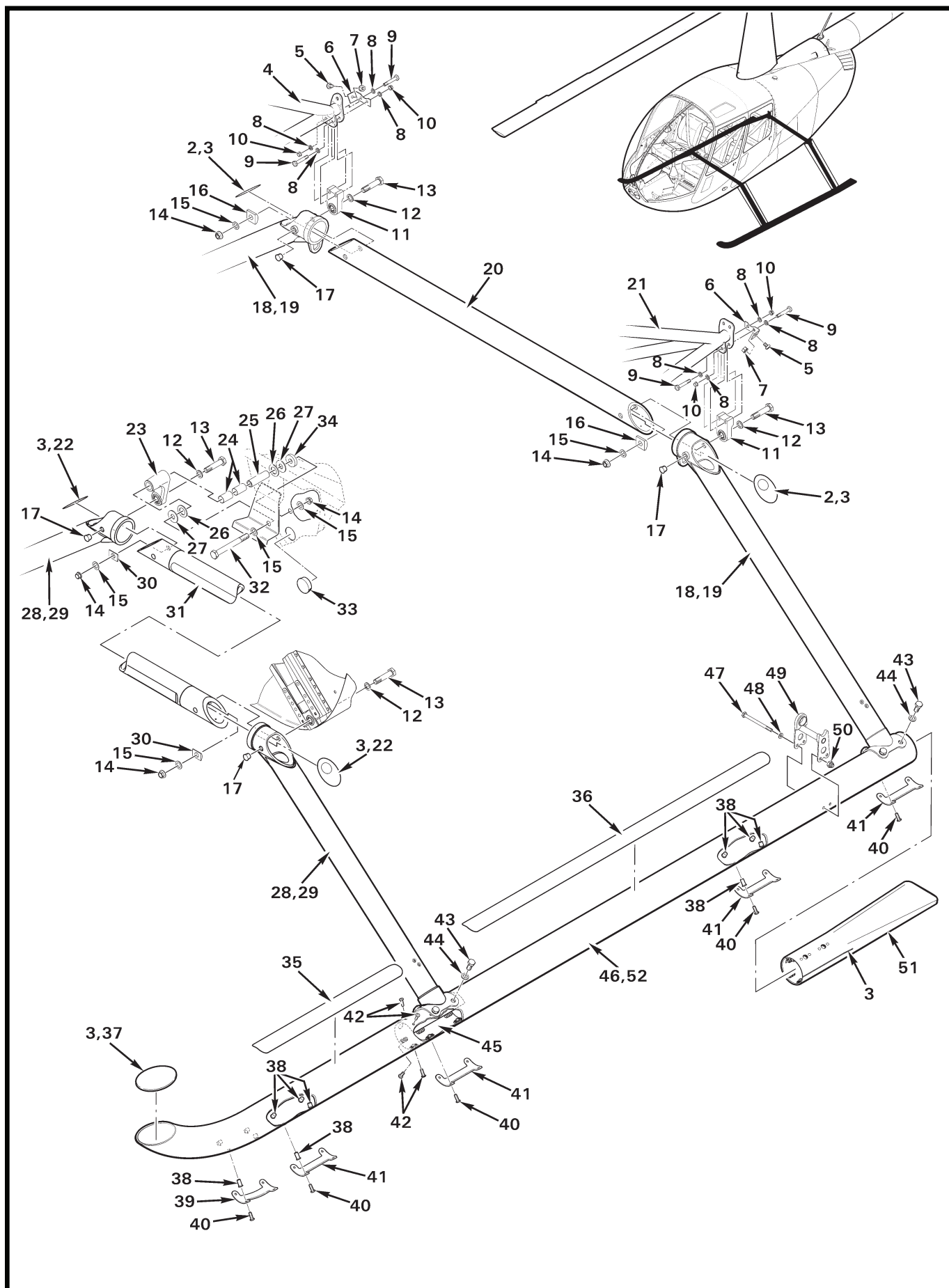


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
32-11-1		STRUT FAIRING INSTALLATION*		
	C082-2.CS**	Fairing Assembly – Forward (RH)	X	1
	C082-3.CS	Fairing Assembly – Forward (LH)	X	1
	C082-4.CS**	Fairing Assembly – Aft (RH)	X	1
	C082-5.CS	Fairing Assembly – Aft (LH)	X	1
	HTM-200	Clamp	X	8
	B270-10	Adhesive (for clamp threads)	X	A/R
	MS27039C0805	Screw	X	26
	B162-3	Clipnut	X	26
		* * *		
	C082-12.CS**	Fairing Assembly – Forward (RH, extended gear)	X	1
	C082-13.CS**	Fairing Assembly – Forward (LH, extended gear)	X	1
	C082-14.CS**	Fairing Assembly – Aft (RH, extended gear)	X	1
	C082-15.CS**	Fairing Assembly – Aft (LH, extended gear)	X	1
		* * *		
	C082-22.CS**	Fairing Assembly – Forward (RH, pop-out float gear)	X	1
	C082-23.CS	Fairing Assembly – Forward (LH, pop-out float gear)	X	1
	C082-24.CS**	Fairing Assembly – Aft (RH, pop-out float gear)	X	1
	C082-25.CS	Fairing Assembly – Aft (LH, pop-out float gear)	X	1
NOTES * Revision “M” and prior fairing assemblies. Installed on C014-8 and -22 landing gear. See Figure 32-5. Comes painted white. Additional charge for color matching. ** Not shown.				

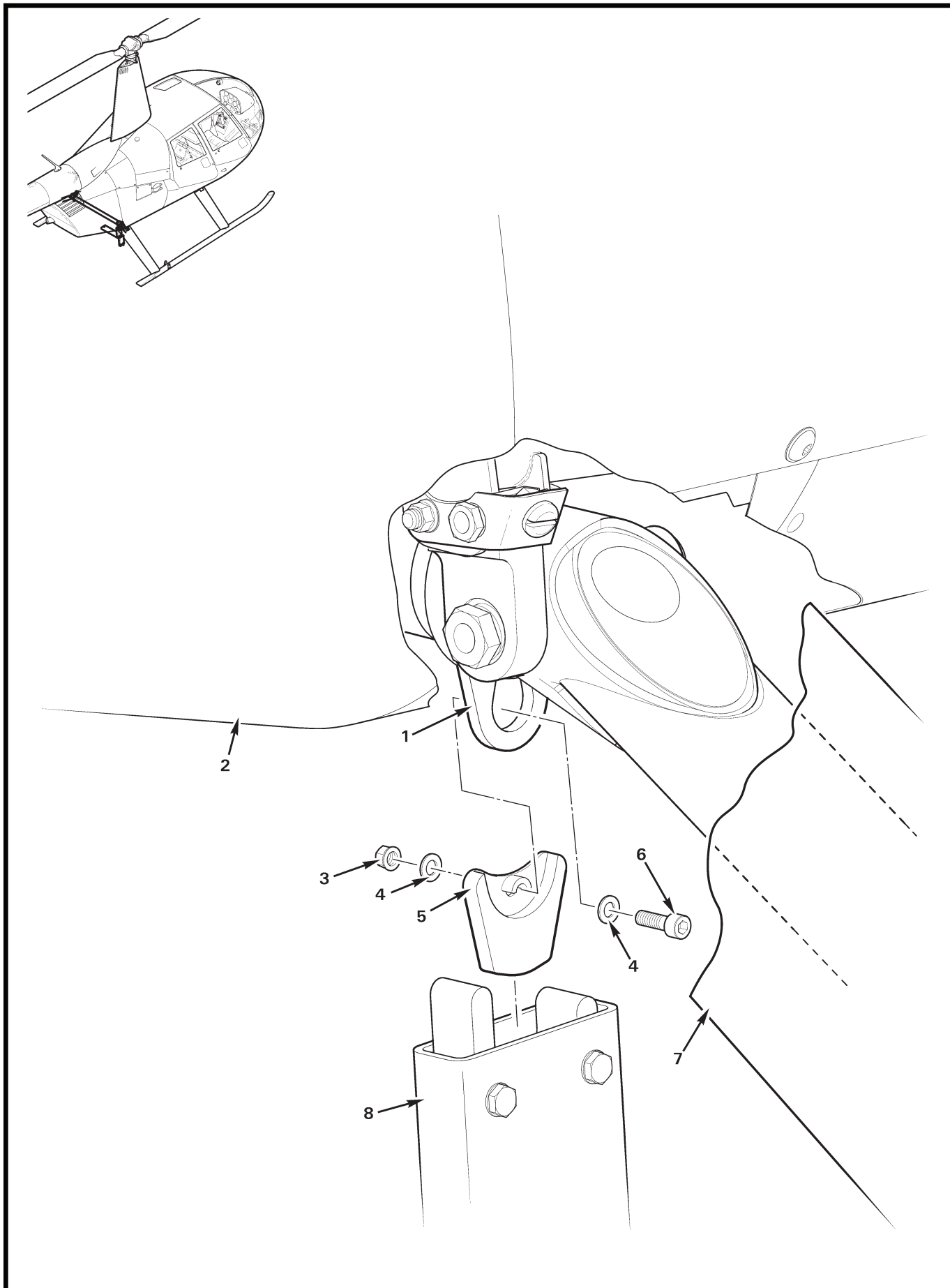
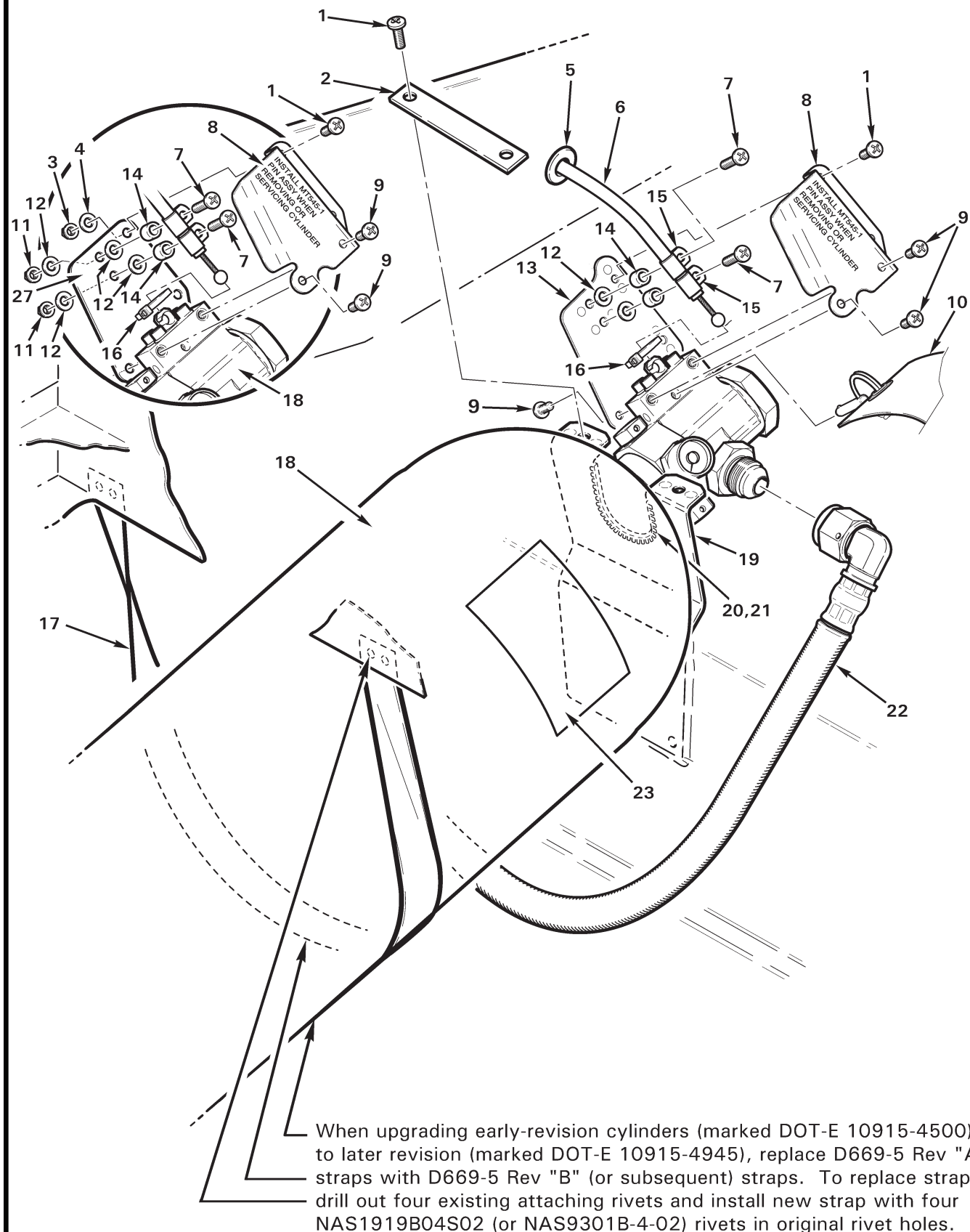


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
32-11B-1		LANDING GEAR LUG – EXTENSION INSTALLATION		
	C239-12	Strut Assembly – Aft (standard gear; Ref, see Figure 32-1)		
	C239-16	Strut Assembly – Aft (Extended gear. Ref, not shown; see Figure 32-1.)		
	2 D040-1	Cowling Assembly – Aft (Ref, see Figure 53-5)		
	3 D210-3	Nut	X	1
	4 NAS620-10L	Washer	X	2
	5 F411-10	Extension	X	1
	6 NAS1351-3-10P	Screw	X	1
	7 C082	Fairing Assembly – Aft (RH, Ref; see Figure 32-9)		
8	—	Tow Cart* (Ref)		
NOTES * Refer to MT950 Ground Handling Cart Operating Instructions, Maintenance Manual, and Illustrated Parts Catalog online at www.robinsonheli.com .				



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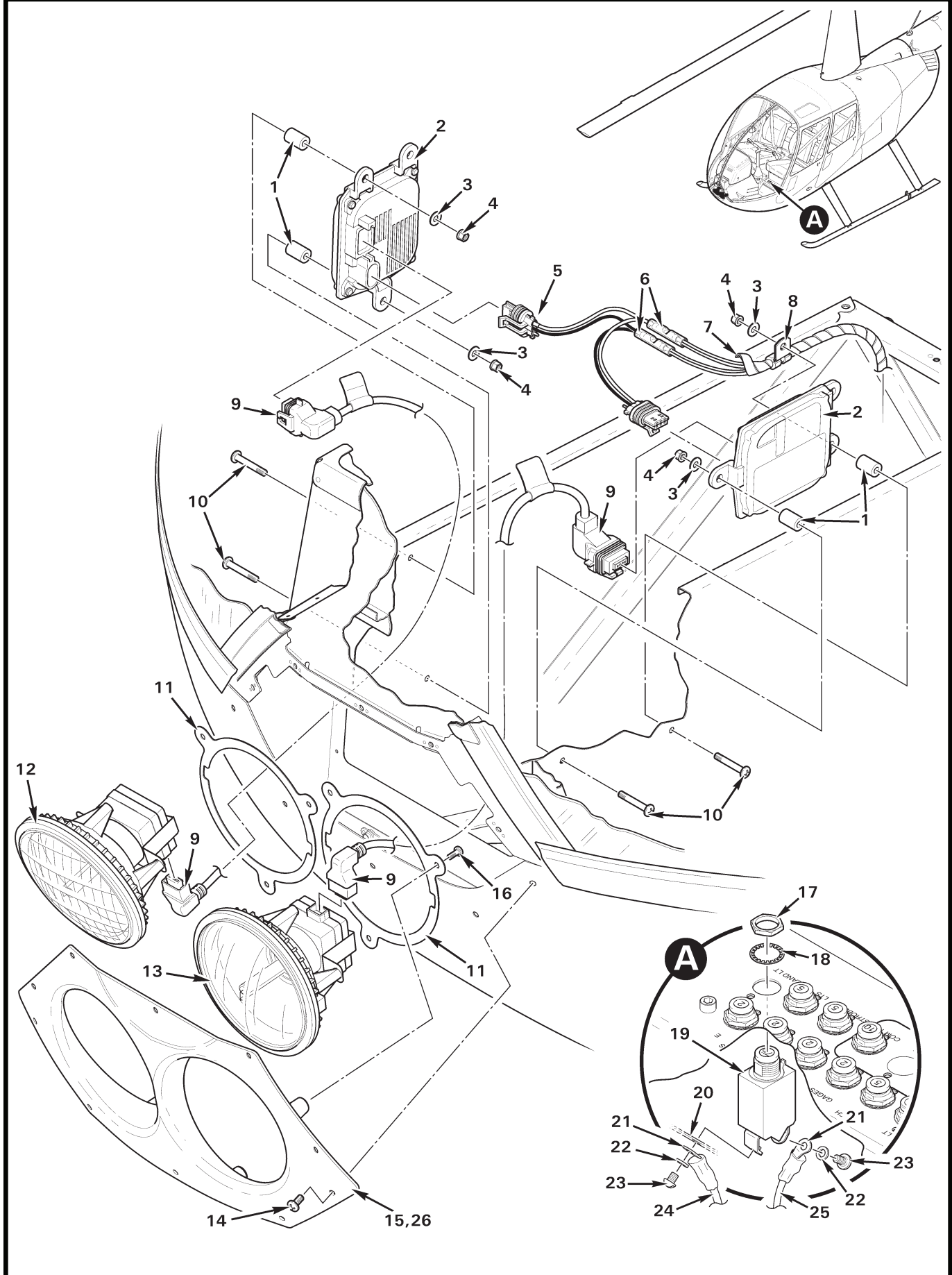


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LANDING LIGHTS INSTALLATION (HID)		
33-11-1	A130-38	Spacer	X	4
2	B557-3	Ballast (28-volt; includes item 5)	X	2
	B557-5	Ballast (14-volt; includes item 5)	X	2
3	NAS1149FN832P	Washer	X	4
4	MS21042L08	Nut	X	4
5	B557-7	Power Cord (connector and wires)	X	2
6	B261-3	Splice	X	2
7	B161-4	Spirap	X	A/R
8	MS21919WDG2	Clamp	X	1
9	B557-8	Cable (long; 90° to 90°)	X	2
10	MS27039C0816	Screw	X	4
11	C526-3	Retainer	X	2
12	B557-2	Lamp – RH (HID, flood)	X	1
13	B557-1	Lamp – LH (HID, spot)	X	1
14	AN526C832R8	Screw	X	10
15	C526-2	Bezel (install using item 26 to seal edges)	X	1
16	MS35206-228	Screw	X	6
17	—	Nut	O	1
18	—	Lockwasher	O	1
19	B297-7	Circuit Breaker (7.5 amp; includes items 17, 18, 22, and 23) . . .	X	1
20	A448-16	Bus Bar (Ref)		
21	B260-2	Terminal (Ref)		
22	—	Washer	O	2
23	—	Screw	O	2
24	-102	Wire (Ref)		
25	-2380	Wire (Ref; to landing lights relay)		
26	B270-13	Sealant (3-oz. tube)	X	A/R
NOTES				

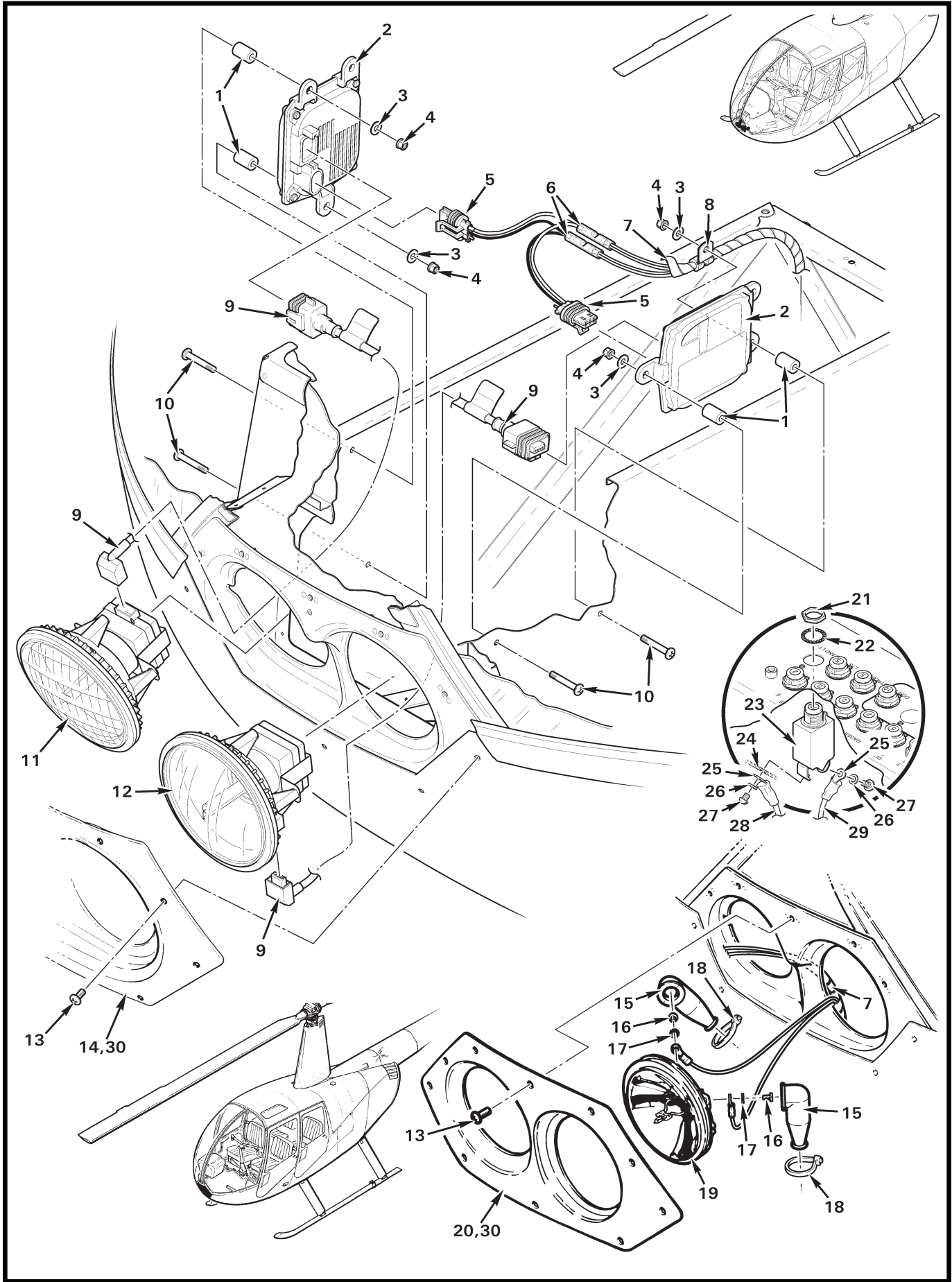
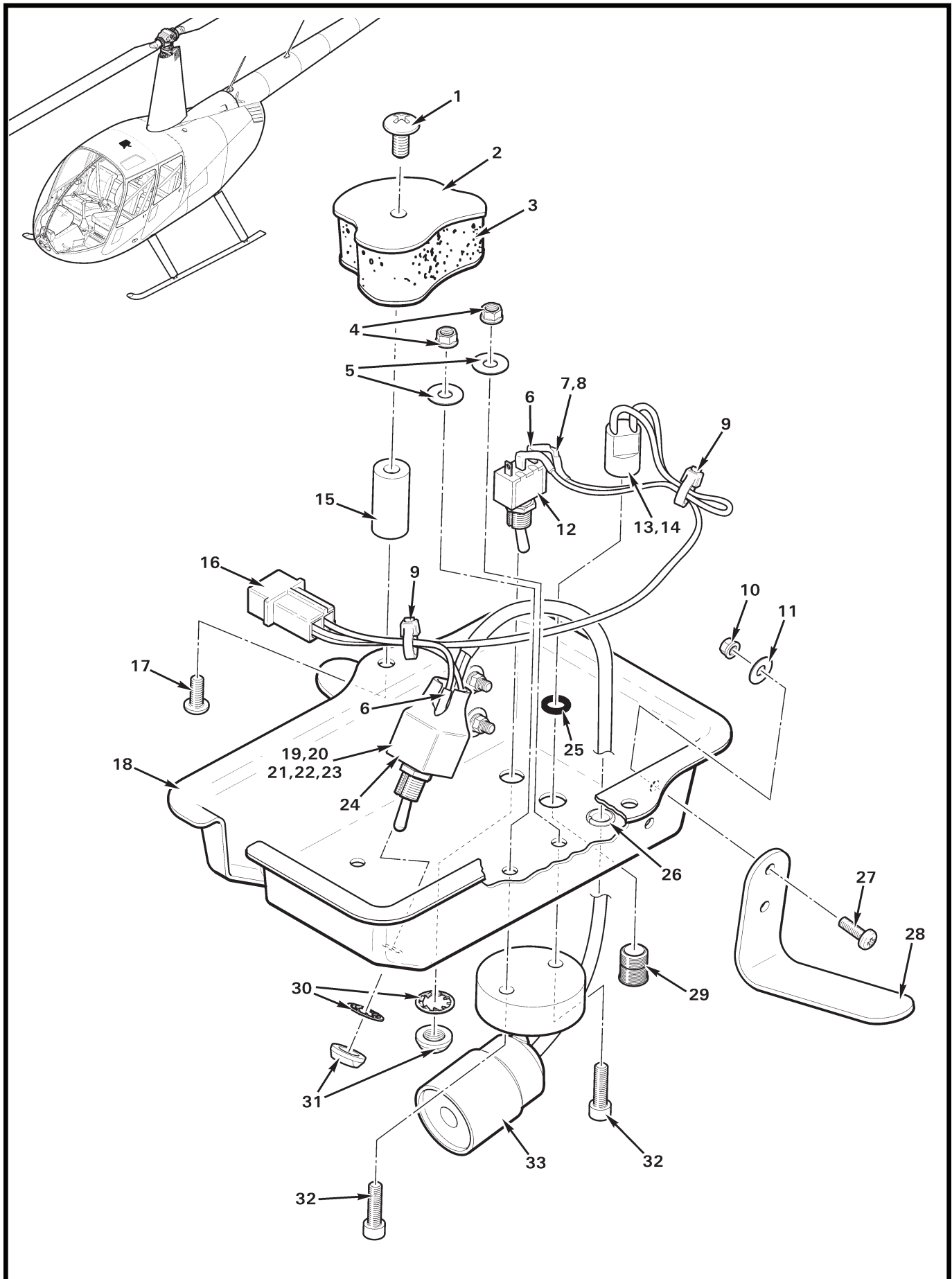


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		LANDING LIGHTS INSTALLATION*		
33-13-1	A130-38	Spacer	X	4
2	B557-3	Ballast (28-volt; includes item 5)	X	2
	B557-5	Ballast (14-volt; includes item 5)	X	2
3	NAS1149FN832P	Washer	X	4
4	MS21042L08	Nut	X	4
5	B557-7	Power Cord (connector and wires)	X	2
6	B261-3	Splice	X	2
7	B161-4	Spirap	X	A/R
8	MS21919WDG2	Clamp	X	1
9	B557-8	Cable	X	2
10	MS27039C0816	Screw	X	4
11	B557-2	Lamp – RH (HID, flood)	X	1
12	B557-1	Lamp – LH (HID, spot)	X	1
13	AN526C832R8	Screw	X	10
14	C526-3	Retainer (install using item 30 to seal edges).	X	1
15	MS25171-2S	Nipple	X	4
16	—	Screw	O	4
17	—	Lockwasher	O	4
18	MS3367-4-9	Ty-Rap	X	4
19	B196-26	Lamp (14-volt, includes items 16 and 17. GE part no. Q4509)	X	2
	B196-27	Lamp (28-volt, includes items 16 and 17. GE part no. 4591)	X	2
20	C526-1	Retainer (install using item 30 to seal edges).	X	1
21	—	Nut	O	1
22	—	Lockwasher	O	1
23	B297-7	Circuit Breaker (20 amp; includes items 21, 22, 26, and 27)	X	1
24	A448-16	Bus Bar (Ref)		
25	B260-2	Terminal (Ref)		
26	—	Washer	O	2
27	—	Screw	O	2
28	-102	Wire (Ref)		
29	-103	Wire (Ref; to landing lights relay)		
30	B270-13	Sealant (3-oz. tube)	X	A/R

NOTES * Earlier R44s.



CHAPTER 52

DOORS AND WINDOWS

<i>Figure</i>	<i>Title</i>	<i>Page</i>
52-1	Forward Door Assembly	52.0
52-7	Aft Door Assembly	52.6
52-13	Aft Door Assembly – R44 Cadet	52.12
52-15	Windshield Installation	52.14

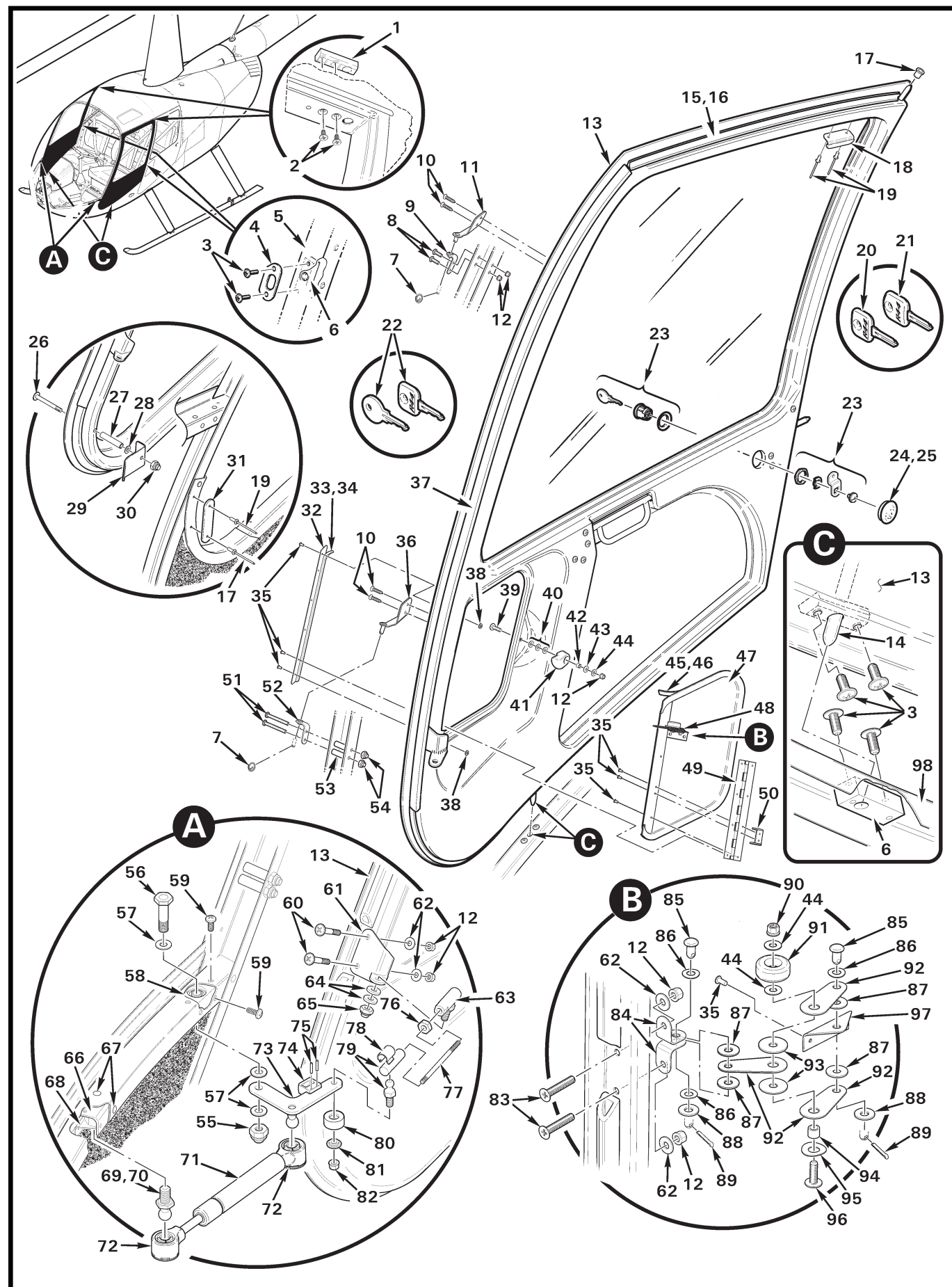


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FORWARD DOOR ASSEMBLY		
52-1-1	C537-16	Block	X	2
2	93195A322	Screw	X	4
3	AN525-832R6	Screw	X	2
4	C538-1	Plate	X	1
5	C403	Door Post (Ref)		
6	C537-11	Block	X	2
7	B427-1	Ring – Cotter	X	2
8	MS27039C0807	Screw	X	2
9	A228-1	Hinge Assembly (RH and LH, upper)	X	1
10	MS51861-37C	Screw (self-tapping)	X	4
11	C227-4	Hinge Assembly (RH, upper)	X	1
	C227-3	Hinge Assembly (LH, upper)	X	1
12	MS21042L08	Nut	X	7
13	C026-012*	Door Assembly** (RH, clear; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86)	X	1
	C026-011*	Door Assembly** (LH, clear; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-022*	Door Assembly** (RH, light tint; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-021*	Door Assembly** (LH, light tint; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-032*	Door Assembly** (RH, bubble, clear; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-031*	Door Assembly** (LH, bubble, clear; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-042*	Door Assembly** (RH, bubble, tinted; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
	C026-041*	Door Assembly** (LH, bubble, tinted; includes items 7, 14, 15, 18 thru 22, 24, 26, 30 thru 47, 52 thru 54, 73 thru 76, and 78 thru 86; not shown)	X	1
NOTES * Will be shipped painted white. ** Ship S/N 2380 and prior, S/N 10001 thru 13760 may require KI-244, unless kit was previously installed, or doors with item 14 were factory-installed.				

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
FORWARD DOOR ASSEMBLY (Cont'd)				
52-1-14	C224-13	Rod Assembly (Ref)		
15	A226-2	Seal (bond using item 16)	X	A/R
16	B270-18	Adhesive (5-oz. tube)	X	A/R
17	2017	Bushing	X	1
	NAS557-4B	Grommet (earlier R44s)	X	1
18	C223-1	Angle	X	2
19	B204-1 *	Rivet (blind; alternate part no. 01610-11041)	X	A/R
20	D768-2	Key – Blank (black plastic-coated brass key, “R44” logo)	X	2
21	D768-10	Key – Blank (black plastic-coated, “R44” logo; earlier R44s) . .	O	1
22	R8427	Key – Duplicate (black plastic-coated brass key, “R44” logo)	X	1
	R8096	Key – Duplicate (small brass key without black plastic coating or “R44” logo)	X	1
23	A556-1	Door Lock (with 2 keys, round head)	X	1
	A556-3	Door Lock (with 2 keys, square head; earlier R44s, not shown)	O	1
24	2713	Hole Plug (bond using item 25)	X	1
25	B270-9	Adhesive (2-oz. kit)	X	A/R
26	AN525-832R24 *	Screw	X	1
27	C130-19 *	Spacer	X	1
28	NAS1149FN816P	Washer (as required for shimming)	X	A/R
29	A768-2 *	Clip (RH)	X	1
	A768-1 *	Clip (LH; not shown)	X	1
30	B340-4 *	Nut	X	2
31	A767-1 *	Rub Strip (RH and LH)	X	2
32	C682-2	Barrier	X	1
33	A226-3	Seal (bond using item 34)	X	A/R
34	B270-8.2OZ	Adhesive (2-oz. container)	X	A/R
35	MS20470AD3	Rivet	X	13
36	C227-2	Hinge Assembly (RH, lower)	X	1
	C227-1	Hinge Assembly (LH, lower)	X	1
37	A226-6	Seal (forward door edge, self-adhesive)	X	A/R
38	NAS1149FN232P	Washer	X	2

NOTES * Earlier doors (C026 Rev AG or prior).

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FORWARD DOOR ASSEMBLY (Cont'd)		
52-1-39	AN525-832R10	Screw	X	1
40	NAS1149FN816P	Washer (or NAS1149FN832P for proper seal compression) . .	X	A/R
41	C285-1	Knob	X	1
42	C130-5	Spacer	X	1
43	U216-0100-S	Spring Washer (alternate part no. U216-0100S or U216-0100)	X	1
44	NAS1149FN816P	Washer	X	2
45	A226-7	Seal (bond using item 46; 3 sides of vent door)	X	A/R
46	B270-8.2OZ	Adhesive (2-oz. container)	X	A/R
47	C425-2	Vent Door (RH, forward; door only)	X	1
	C425-1	Vent Door (LH, forward; door only)	X	1
48	A425-17	Arm Assembly (LH and RH; includes items 44, and 84 thru 97)	X	1
49	C425-5	Hinge	X	1
50	B242-2	Stop	X	1
51	MS27039C0824	Screw	X	2
52	C228-1	Hinge Assembly	X	1
53	C130-37	Spacer	X	2
54	B340-4	Nut	X	4
55	B340-10	Nut	X	1
56	NAS6604-12	Bolt	X	1
57	NAS1149F0432P	Washer	X	3
58	D573-1	Block	X	1
59	MS27039C0806	Screw	X	4
60	AN525-832R16	Screw	X	2
61	D574-4	Bracket (RH)	X	1
	D574-3	Bracket (LH, not shown)	X	1
62	NAS1149FN832P	Washer	X	2
63	D575-3	Ball Joint	X	1
64	NAS1149F0363P	Washer	X	2
65	B340-8	Nut	X	2
66	D573-3	Block (install using item 67)	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
FORWARD DOOR ASSEMBLY (Cont'd)				
52-1-67	MS20470AD4	Rivet	X	6
68	D573-5	Angle	X	1
69	C394-2	Ball Stud (use item 70 on threads)	X	1
70	B270-10	Adhesive (1.69-oz. bottle)	X	A/R
71	D575-1	Gas Spring	X	1
72	PS130	End Connector	X	2
73	D574-2	Arm Assembly (RH; includes items 74 and 75)	X	1
	D574-1	Arm Assembly (LH, not shown; includes items 74 and 75)	X	1
74	D573-7	Bumper	X	1
75	MS16562-4	Spring Pin	X	2
76	AN315-3R	Nut	X	1
77	D573-4	Rod	X	1
78	P-8100	Clip	X	1
79	D575-2	Ball Joint (Incl item 78)	X	1
80	C119-3	Bumper	X	1
81	B138-2	Spacer	X	1
82	D210-3	Nut	X	2
83	MS24694-S11	Screw	X	2
84	A425-19	Clip	X	2
85	MS20392-2C7	Pin	X	2
86	U190-0090-S	Spring Washer (alternate part no. U190-0090S)	X	3
87	A141-8	Washer	X	4
88	NAS1149F0332P	Washer	X	2
89	MS24665-151	Cotter Pin	X	2
90	MS21042L08	Nut	X	1
91	A431-1	Knob	X	1
92	A425-7	Arm	X	3
93	A141-7	Washer	X	2
94	A105-7	Journal	X	1
95	CRV-26152	Spring Washer (alternate part no. U250-0185-S or U250-0185)	X	1
96	AN525-832R8	Screw	X	1
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		FORWARD DOOR ASSEMBLY (Cont'd)		
52-1-97	A425-13	Angle	X	1
98	C238-8	Sill (Ref, RH)		
	C238-7	Sill (Ref, LH; not shown)		
		* * *		
99	KI-244*	R44-series Forward Door Kit (Ref, not shown)	X	1
NOTES * Ship S/N 2380 and prior, S/N 10001 thru 13760 may require KI-244, unless kit was previously installed, or doors with item 14 were factory-installed.				

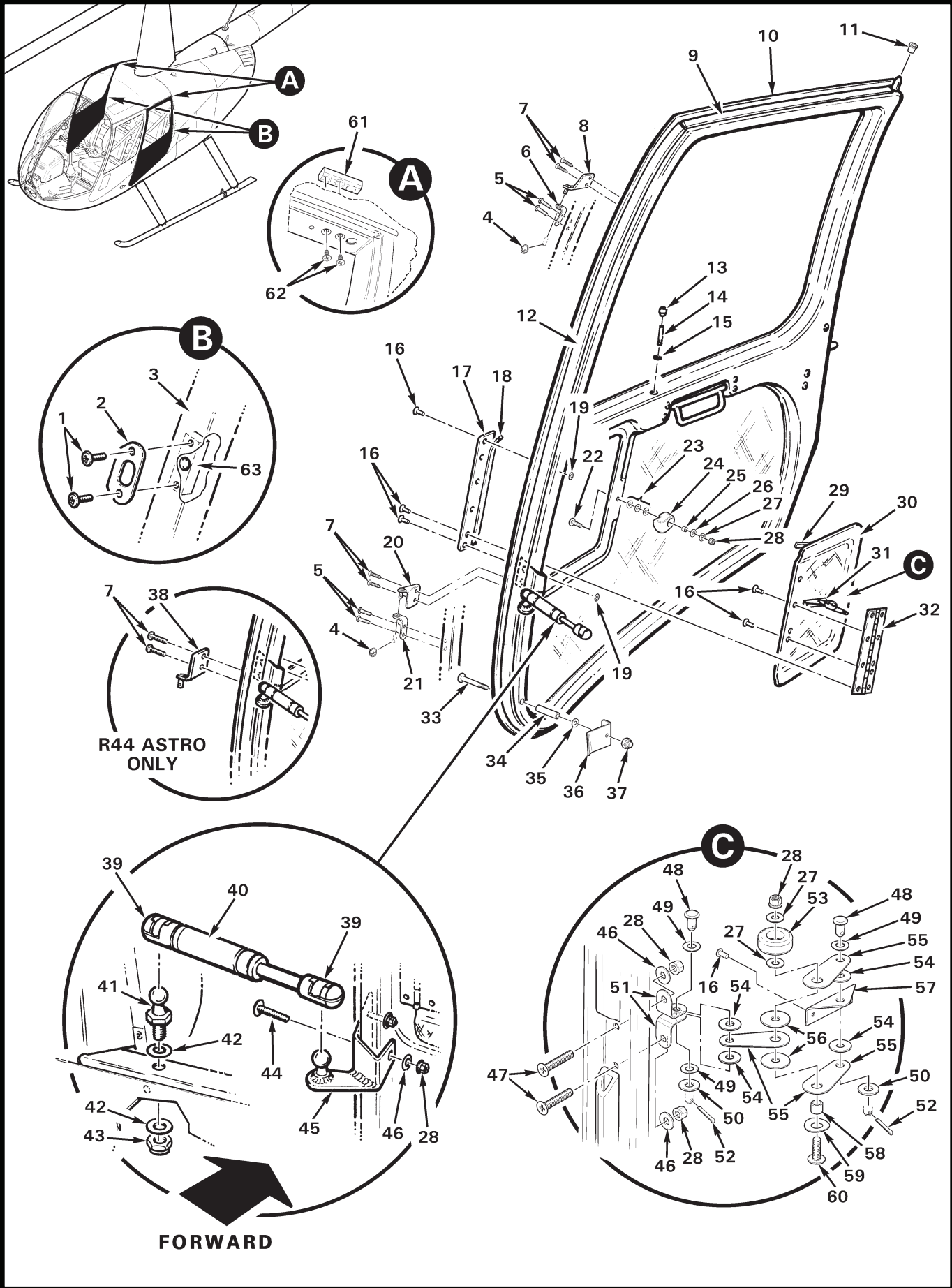


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT DOOR ASSEMBLY*		
52-7-1	AN525-832R6	Screw	X	2
2	C538-1	Plate	X	1
3	C238	Door Jamb (Ref)		
4	B427-1	Ring – Cotter	X	2
5	MS27039C0809	Screw	X	4
6	A228-1	Hinge	X	1
7	MS51861-37C	Screw	X	4
8	C389-4	Hinge Assembly (RH, upper)	X	1
	C389-3	Hinge Assembly (LH, upper)	X	1
9	A226-2	Seal (bond using item 10)	X	A/R
10	B270-18	Adhesive (5-oz. tube)	X	A/R
11	C026-014**	Door Assembly (RH, clear; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50)	X	1
	C026-013**	Door Assembly (LH, clear; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-024**	Door Assembly (RH, light tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-023**	Door Assembly (LH, light tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-034**	Door Assembly (RH, bubble, clear; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-033**	Door Assembly (LH, bubble, clear; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-044**	Door Assembly (RH, bubble, light tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-043**	Door Assembly (LH, bubble, light tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-054**	Door Assembly (RH, dark tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-053**	Door Assembly (LH, dark tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-064**	Door Assembly (RH, bubble, dark tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
	C026-063**	Door Assembly (LH, bubble, dark tint; includes items 9, 13 thru 22, 25 thru 34, 36, 37 thru 41, and 48 thru 50; not shown)	X	1
NOTES * Ship S/N 0001 thru 9999, and S/N 10001 thru 29999. ** Will be shipped painted white.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT DOOR ASSEMBLY (Cont'd)		
52-7-12	2017	Bushing	X	1
	NAS557-4B	Grommet (not shown, earlier R44s)	X	1
13	A226-6	Seal (forward door edge, self-adhesive)	X	A/R
14	A431-2	Knob (door lock).	X	1
	1770	Knob (not shown, earlier R44s)	O	1
15	C544-1	Pin	X	1
16	C26005	Washer (bond using item 17)	X	1
17	B270-9	Adhesive (2-oz. kit)	X	A/R
18	MS20470AD3	Rivet	X	13
19	C682-1	Barrier	X	1
20	A226-3	Seal (bond using item 21)	X	A/R
21	B270-8.2OZ	Adhesive (2-oz. container)	X	A/R
22	NAS1149FN232P	Washer	X	2
23	C389-10	Hinge Assembly (RH, lower)	X	1
	C389-9	Hinge Assembly (LH, lower; not shown)	X	1
24	A228-2	Hinge	X	1
25	AN525-832R10	Screw	X	1
26	NAS1149FN816P	Washer (or NAS1149FN832P for proper seal compression) . .	X	A/R
27	C285-1	Knob	X	1
28	C130-5	Spacer	X	1
29	U216-0100-S	Spring Washer (alternate part no. U216-0100S or U216-0100)	X	1
30	NAS1149FN816P	Washer	X	3
31	MS21042L08	Nut	X	6
32	A226-7	Seal (bond using item 33; 3 sides of vent door)	X	A/R
33	B270-8.2OZ	Adhesive (2-oz. container)	X	A/R
34	C425-4	Vent Door (RH, aft; door only)	X	1
	C425-3	Vent Door (LH, aft; door only)	X	1
35	A425-17	Arm Assembly (LH and RH; includes items 30, 31, and 52 thru 64)	X	1
36	C425-5	Hinge	X	1
37	AN525-832R24*	Screw	X	1

NOTES * Earlier R44s.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT DOOR ASSEMBLY (Cont'd)		
52-7-38	C130-19*	Spacer	X	1
39	NAS1149FN816P*	Washer (as required for shimming)	X	A/R
40	A768-2*	Clip (RH)	X	1
	A768-1*	Clip (LH; not shown)	X	1
41	B340-4*	Nut	X	1
42	C389-2	Hinge Assembly (RH, lower; R44 Astro only)	X	1
	C389-1	Hinge Assembly (LH, lower; R44 Astro only)	X	1
43	PC1249-2	End Connector	X	2
44	C394-1	Gas Spring (includes clips and item 43 as shown)	X	1
45	C394-2	Ball Stud	X	1
46	C141-15	Washer	X	2
47	21FKF-518	Nut	X	1
48	MS27039C0816	Screw	X	2
49	C393-2	Bracket (RH)	X	1
	C393-1	Bracket (LH, not shown)	X	1
50	NAS1149FN832P	Washer	X	2
51	MS24694-S11	Screw	X	2
52	MS20392-2C7	Pin	X	2
53	U190-0090-S	Spring Washer (alternate part no. U190-0090S)	X	3
54	NAS1149F0332P	Washer	X	2
55	A425-19	Clip	X	2
56	MS24665-151	Cotter Pin	X	2
57	A431-1	Knob	X	1
58	A141-8	Washer	X	2
59	A425-7	Arm	X	3
60	A141-7	Washer	X	2
61	A425-13	Angle	X	1
62	A105-7	Journal	X	1
63	CRV-26152	Spring Washer (alternate part no. U250-0185-S or U250-0185)	X	1
64	AN525-832R8	Screw	X	1
65	C537-16	Block	X	2
NOTES * Earlier R44s. Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
52-7-66 67	93195A322	AFT DOOR ASSEMBLY (Cont'd) Screw	X	4
	C537-11	Block	X	2
NOTES				

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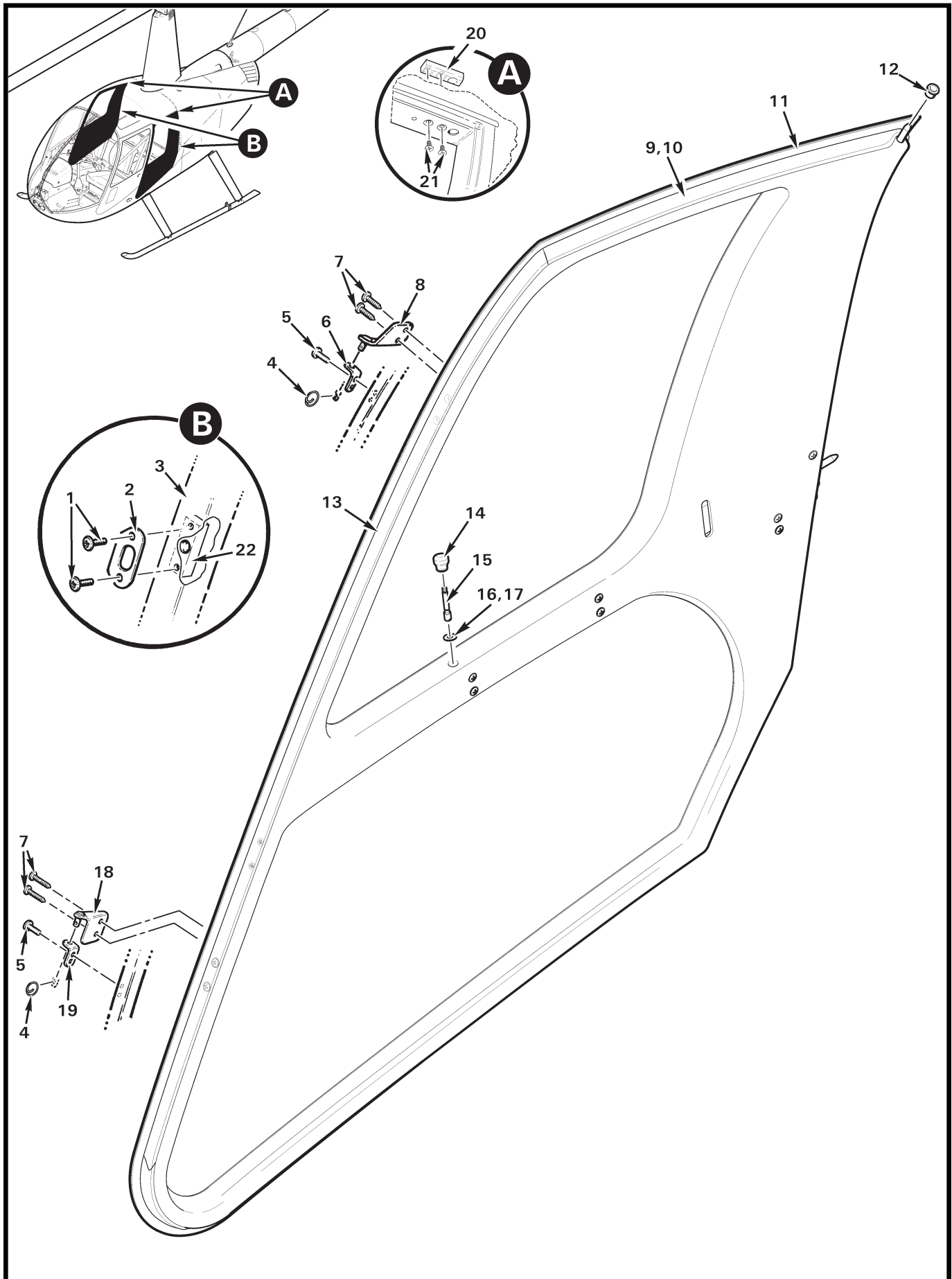


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT DOOR ASSEMBLY – R44 CADET*		
52-13-1	AN525-832R6	Screw	X	2
2	C538-1	Plate	X	1
3	C238	Door Jamb (Ref)		
4	B427-1	Ring – Cotter	X	2
5	MS27039C0809	Screw	X	4
6	A228-1	Hinge	X	1
7	MS51861-37C	Screw (self-tapping)	X	4
8	C389-4	Hinge Assembly (RH, upper)	X	1
	C389-3	Hinge Assembly (LH, upper; not shown)	X	1
9	A226-2	Seal (install using item 10)	X	A/R
10	B270-18	Adhesive (5-oz. tube)	X	A/R
11	C026-224**	Door Assembly (RH, light tint; includes items 9, 13 thru 16) . . .	X	1
	C026-223**	Door Assembly (LH, light tint; includes items 9, 13 thru 16) . . .	X	1
	C026-254**	Door Assembly (RH, dark tint; includes items 9, 13 thru 16) . . .	X	1
	C026-253**	Door Assembly (LH, dark tint; includes items 9, 13 thru 16) . . .	X	1
12	2017	Bushing	X	1
	NAS557-4B	Grommet (not shown, earlier R44s)	X	1
13	A226-6	Seal (self-adhesive, front edge of door only)	X	A/R
14	A431-2	Knob (door lock)	X	1
	1770	Knob (not shown, earlier R44s)	O	1
15	C544-1	Pin	X	1
16	C26005	Washer (bond using item 17)	X	1
17	B270-9	Adhesive (2-oz. kit)	X	A/R
18	C389-10	Hinge Assembly (RH, lower)	X	1
	C389-9	Hinge Assembly (LH, lower; not shown)	X	1
19	A228-2	Hinge	X	1
20	C537-16	Block	X	2
21	93195A322	Screw	X	4
22	C537-11	Block	X	2
NOTES * Ship S/N 30001 and subsequent. ** Will be shipped painted white.				

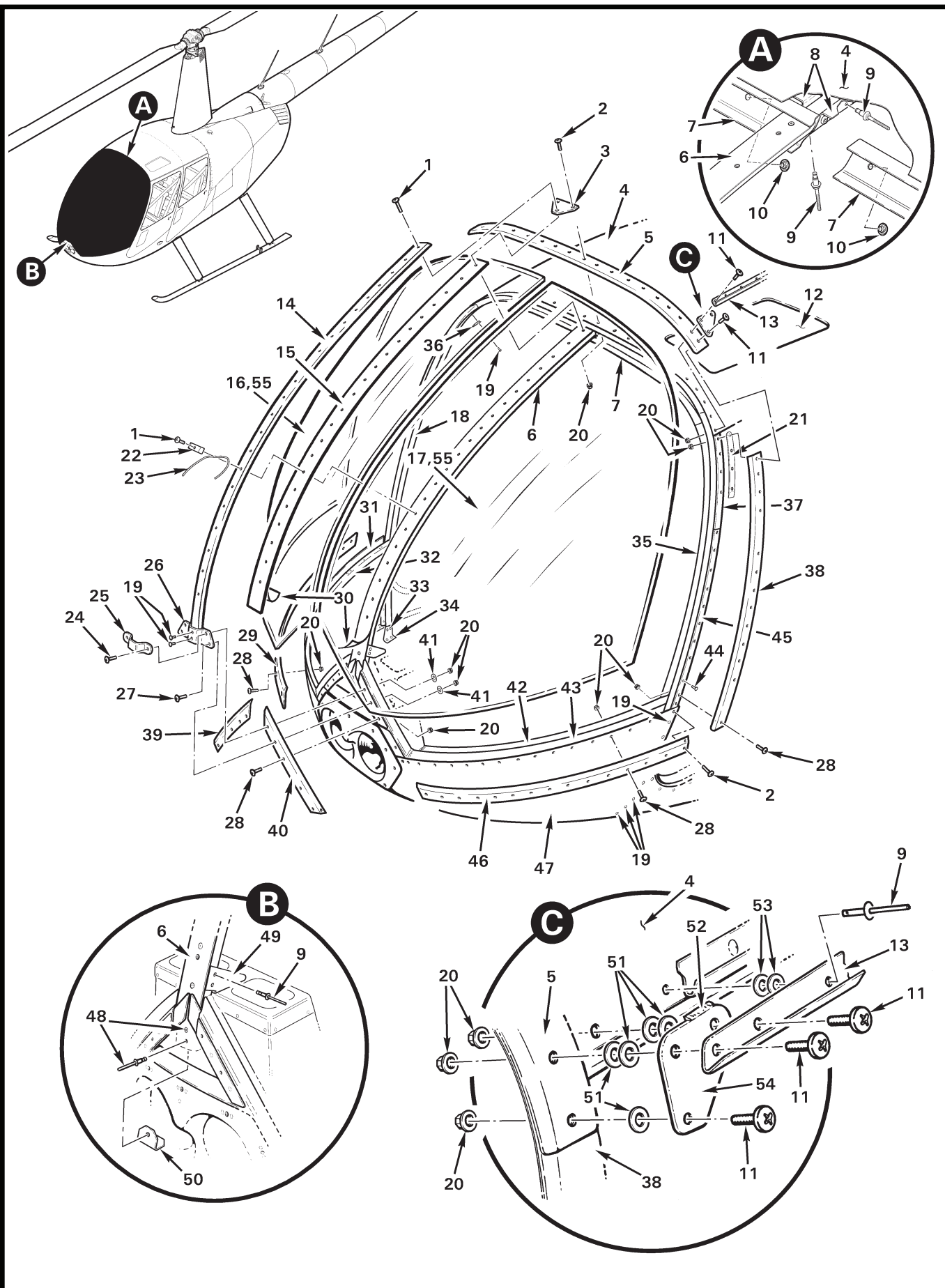


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		WINDSHIELD INSTALLATION		
52-15-1	AN526C832R12	Screw (do not substitute MS27039 screws)	X	22
2	AN526C832R9	Screw (do not substitute MS27039 screws)	X	10
3	B409-5	Gusset	X	1
4	C273-1	Roof (Incl item 12)	X	1
5	C238-29*	Retainer (apply item 52 to edges)	X	1
6	C238-2	Bow Assembly (includes wires)	X	1
7	C238-16	Frame (forward, roof)	X	1
8	C238-23	Support	X	1
9	NAS9301B-4-02	Rivet (blind; or NAS1919B04S02 as required)	X	9
10	BPF-5MM	Plug	X	8
11	AN526C832R9	Screw (or AN526C832R10 thru AN526C832R12 to obtain one thread minimum beyond nut)	X	6
12	C273-3	Window (clear acrylic)	X	1
13	C230-8*	Rain Gutter (RH, apply item 52 to edges)	X	1
	C230-7*	Rain Gutter (LH, apply item 52 to edges)	X	1
14	C367-12	Stiffener	X	1
15	C367-10*	Retainer	X	1
16	C274-2	Windshield** (RH, clear; install using item 55)	X	1
	C274-4	Windshield** (RH, tinted; install using item 55)	X	1
17	C274-1	Windshield** (LH, clear; install using item 55)	X	1
	C274-3	Windshield** (LH, tinted; install using item 55)	X	1
18	C238-4	Door Jamb (RH, forward; attach to cabin using items 25, 44, 33, and 34)	X	1
19	MS20470AD4	Rivet	X	38
20	MS21042L08	Nut	X	90
21	C396-1	Shim	X	A/R
22	B295-1	Clip (installed at 7th screw, from item 26, 8th screw with 10-hole console)	X	1
23	—	Yaw/Trim String (Ref; yarn, white acrylic, 0.10 inch dia., 3-inch length each side of clip. Source locally.)		
24	MS27039C0810	Screw	X	4
25	C366-5	Bracket	X	1
26	C366-8	Retainer	X	1
27	MS27039C0809	Screw	X	2
NOTES * Install using item 52. ** See Figure 99-15 for shipping crate.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
WINDSHIELD INSTALLATION (Cont'd)				
52-15-28	AN526C832R8	Screw (do not substitute MS27039 screws)	X	78
29	C367-6*	Retainer (RH)	X	1
30	C367-11	Tape	X	A/R
31	C367-2	Retainer (RH)	X	1
32	C238-18	Frame (RH; attach with item 31 to chin [item 47] using item 44)	X	1
33	MS20470AD3	Rivet	X	8
34	A414-2	Angle (RH)	X	1
	A414-1	Angle (LH, not shown)	X	1
35	C238-3	Door Jamb (LH, forward; attach to cabin using items 25, 44, 33, and 34)	X	1
36	C211-3	Gusset	X	2
37	C238-34	Spacer (LH and RH, 0.118 in. [3mm] or 0.125 in. thick polycarbonate. Attach to items 18 and 35 using item 44.)	X	2
38	C238-27*	Retainer (LH)	X	1
	C238-28*	Retainer (RH; not shown)	X	1
39	C367-8*	Retainer (RH)	X	1
40	C367-7*	Retainer (LH)	X	1
41	NAS1149FN832P	Washer	X	4
42	C238-17	Frame (LH; attach with item 43 to chin [item 47] using item 44)	X	1
43	C367-1	Retainer (LH)	X	1
44	MS20426AD3	Rivet (flush)	X	56
45	D661-1	Spacer (LH and RH, 0.118 in. [3mm] or 0.125 in. thick polycarbonate. Attach to items 18 and 35 using item 44.)	X	2
46	C367-5*	Retainer (LH)	X	1
47	C272-1	Chin	X	1
48	NAS9301B-4-03	Rivet (blind)	X	2
49	C358-2	Support (Ref)		
50	C366-6	Cap	X	1
51	NAS1149FN832P	Washer	X	A/R
52	B270-1	Sealant	X	A/R
53	NAS620-5	Washer	X	A/R

NOTES * Install using item 52.

Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
52-15-54		WINDSHIELD INSTALLATION (Cont'd)		
	D805-2	Restraint (LH and RH. Use item 52 to fill gap between items 13, 54, and 4. To retrofit earlier R44s, order KI-125 kit.) . .	X	2
	55 B270-26	Sealant (polysulfide, 2-part; see MM § 1.480)	O	A/R
	B270-13	Sealant (silicone, 3-oz. tube)	X	A/R
NOTES				

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FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		DAMPER ASSEMBLY		
65-5-1	C041-1	Damper Assembly (Incl items 2 thru 16)	X	1
2	NAS6604-6	Bolt	X	2
3	NAS1149D0416J	Washer	X	4
4	A141-37	Washer	X	4
5	C041-3	Link	X	1
6	C041-5	Washer	X	4
7	C041-11	Bearing Assembly (includes bearing and housing)	X	1
	C172-1	Housing	O	1
8	A105-12	Journal	X	2
9	05DU04	Bushing	X	2
10	C041-6	Spring Washer	X	2
11	A141-36	Washer	X	2
12	D210-4	Nut	X	2
13	B330-13	Palnut	X	2
14	A041-10	Dowel Pin	X	2
15	C041-8	Arm	X	1
16	MS16562-11	Roll Pin	X	1
NOTES				

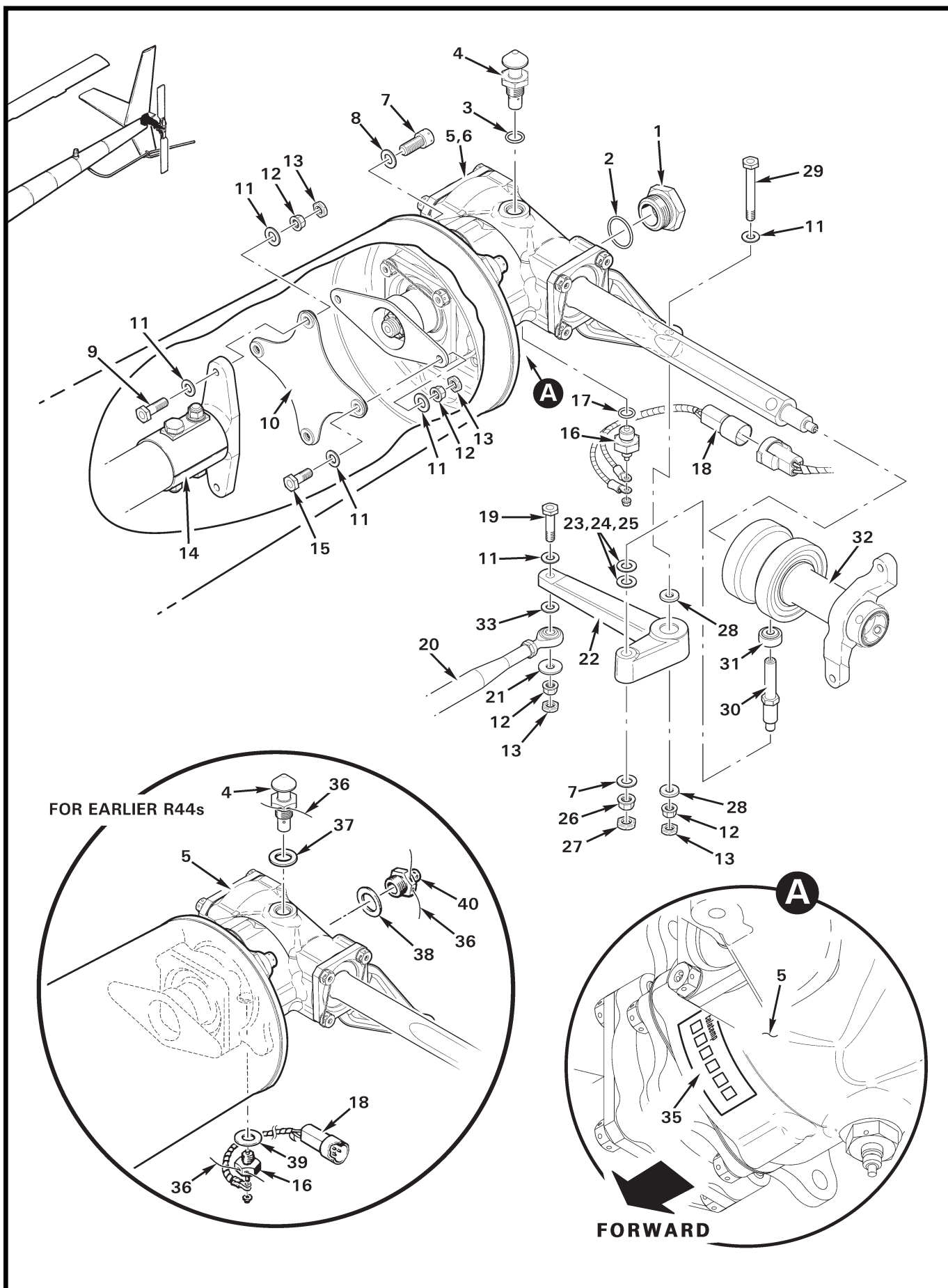


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		TAIL ROTOR GEARBOX INSTALLATION		
65-7-1	B563-4	Sight Gage (flat, UV filter)	X	1
2	A215-020	O-Ring	X	1
3	MS28778-5	Packing	X	1
4	A610-1	Filler – Vent Plug	X	1
5	C021-1	Gearbox Assembly – Tail Rotor (Includes items 1 thru 4, 16 thru 18, 34, and 35. See also Figure 65-11.)	X	1
	C021-1R	C021-1 Gearbox Assembly – Tail Rotor (overhaul exchange)	X	1
6	A257-22*	Oil – Gear (1 gallon)	X	A/R
	A257-22QT*	Oil – Gear (1 quart)	X	A/R
	A257-2*	Oil – Gear (1 gallon)	X	A/R
	A257-2LT*	Oil – Gear (1 liter)	X	A/R
7	NAS1352-5-12P	Cap Screw (for tailcone S/N 3562 and subsequent)	X	4
	NAS1352-5H12P	Cap Screw (requires 0.032-in. dia. safety wire [item 36])	X	4
8	NAS1149F0532P	Washer	X	5
9	NAS6604-7	Bolt	X	2
10	C947-3	Flex Plate	X	1
11	NAS1149F0432P	Washer	X	10
12	D210-4	Nut	X	6
13	B330-13	Palnut	X	6
14	D224	Tail Rotor Drive Shaft Assembly (Ref, see also Figure 65-1)		
15	NAS6604-4	Bolt	X	2
16	B566-2	Chip Detector	X	1
17	MS28778-4	Packing	X	1
18	C049-1	Harness Assembly (chip detector)	X	1
19	NAS6604-10	Bolt (or NAS6604-11)	X	1
20	C121-17	Push-Pull Tube Assembly	X	1
21	A214-3	Washer	X	1
22	A120-3	Bellcrank Assembly	X	1
23	C117-34	Shim – Washer (thickness = 0.016 in.)	X	A/R
24	C117-35	Shim – Washer (thickness = 0.020 in.)	X	A/R
25	C117-36	Shim – Washer (thickness = 0.026 in.)	X	A/R
26	D210-5	Nut	X	1
NOTES * Use correct gearbox oil per R44 Service Letter SL-73.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
TAIL ROTOR GEARBOX INSTALLATION (Cont'd)				
65-7-27	B330-16	Palnut	X	1
28	MS20002-4	Washer	X	2
29	NAS6604-25	Bolt	X	1
30	C125-1	Stud	O	1
31	A104-4	Bearing	O	1
32	C031-1	Pitch Control Assembly (Incl items 30 and 31)	X	1
	C031-1R	C031-1 Pitch Control Assembly (overhaul exchange)	O	1
33	NAS1149F0432P	Washer (or NAS1149F0463P to maintain clearance)	X	A/R
34	C545-1	Gear Set (not shown)	O	1
35	F110-2	Telatemp (Temperature Recorder, 140°–190°F)	X	1
	110-2	Telatemp (Temperature Recorder, 140°–190°F; earlier R44s)	O	1
36	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
37	MS35769-9	Gasket	X	1
38	MS35769-11	Gasket	X	1
39	MS35769-8	Gasket	X	1
40	B563-1	Sight Gage (bubble).	X	1
NOTES				

CHAPTER 71

POWERPLANT

<i>Figure</i>	<i>Title</i>	<i>Page</i>
71-1	Forward Engine Mounts	71.0
71-3	Aft Engine Support Assembly	71.2
71-5	O-540 Powerplant Components	71.4
71-9	IO-540 Powerplant Components	71.8
71-13	Air Induction System	71.12
71-17	Air Induction System	71.16
71-21	Exhaust Muffler Assembly	71.20
71-25	Exhaust Muffler Shield Assembly	71.24
71-27	Scroll Assembly	71.26
71-29	Scroll Assembly	71.28
71-31	Left Side Cooling Panels	71.30
71-35	Left Side Cooling Panels	71.34
71-37	Left Side Cooling Panels	71.36
71-41	Right Side Cooling Panels	71.40
71-45	Right Side Cooling Panels	71.44
71-49	Main Rotor Gearbox Cooling Hoses	71.48
71-49B	Alternator Installation (24V)	71.49A
71-51	Alternator and Starter Installation	71.50
71-55	Starter Installation	71.54
71-59	130-Amp 28V Alternator Installation	71.58
71-63	Alternator Control Unit Installation	71.62
71-65	D174 Fanwheel Assembly	71.65

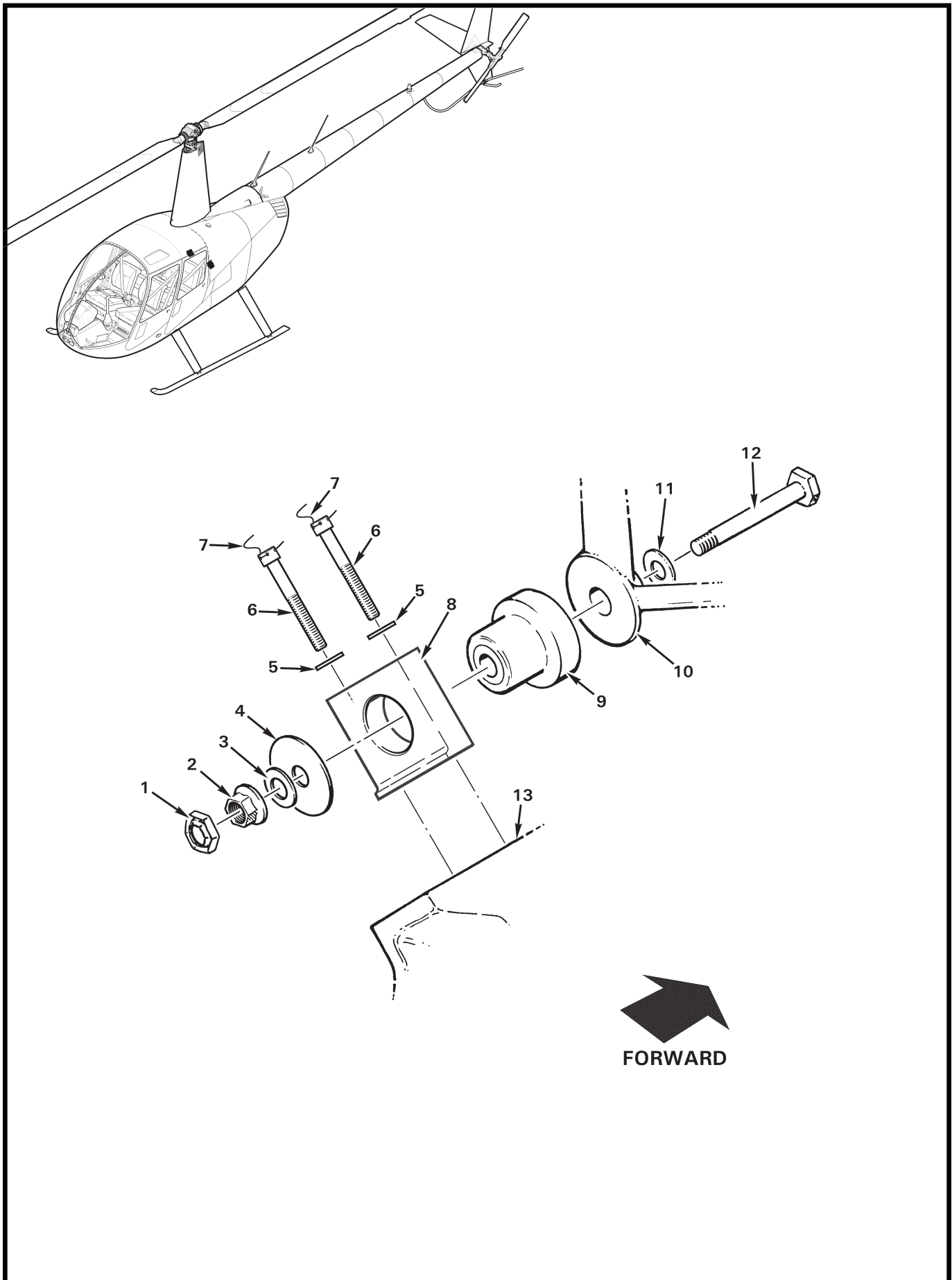


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		MAIN ROTOR GEARBOX COOLING HOSES		
71-49-1	NAS1149F0432P	Washer (or NAS1149F0463P as required to fill gap between item 2 and sump; [2] NAS1149F0463P washers maximum)	X	A/R
2	C747-1	Baffle Assembly	X	1
3	B277-28	Clamp	X	6
4	C006	Main Rotor Gearbox (Ref, see Figure 63-1)		
5	MS3367-7-9	Ty-Rap	X	A/R
6	A959-4	Cap (manual controls only)	X	1
7	MS3367-3-9	Ty-Rap	X	A/R
8	MS3367-5-9	Ty-Rap	X	A/R
9	C371-1	Tube Assembly	X	1
10	A785-6	Hose (to main rotor gearbox)	X	1
11	A785-17	Hose (to scroll)	X	1
12	C723-1	Bulkhead (Ref, see Figure 53-15)		
13	A785-16	Hose (air supply)	X	1
14	MS21919WDG4	Clamp	X	1
15	C020-1	Upper Frame Assembly (Ref, see Figure 52-19)		
16	A701-3	Tape (0.5 in. wide polyethylene)	X	A/R
17	MS21042L08	Nut	X	1
18	NAS1149FN816P	Washer	X	2
19	C749-1	Nozzle Assembly	X	1
20	MS27039C0806	Screw	X	2
NOTES				

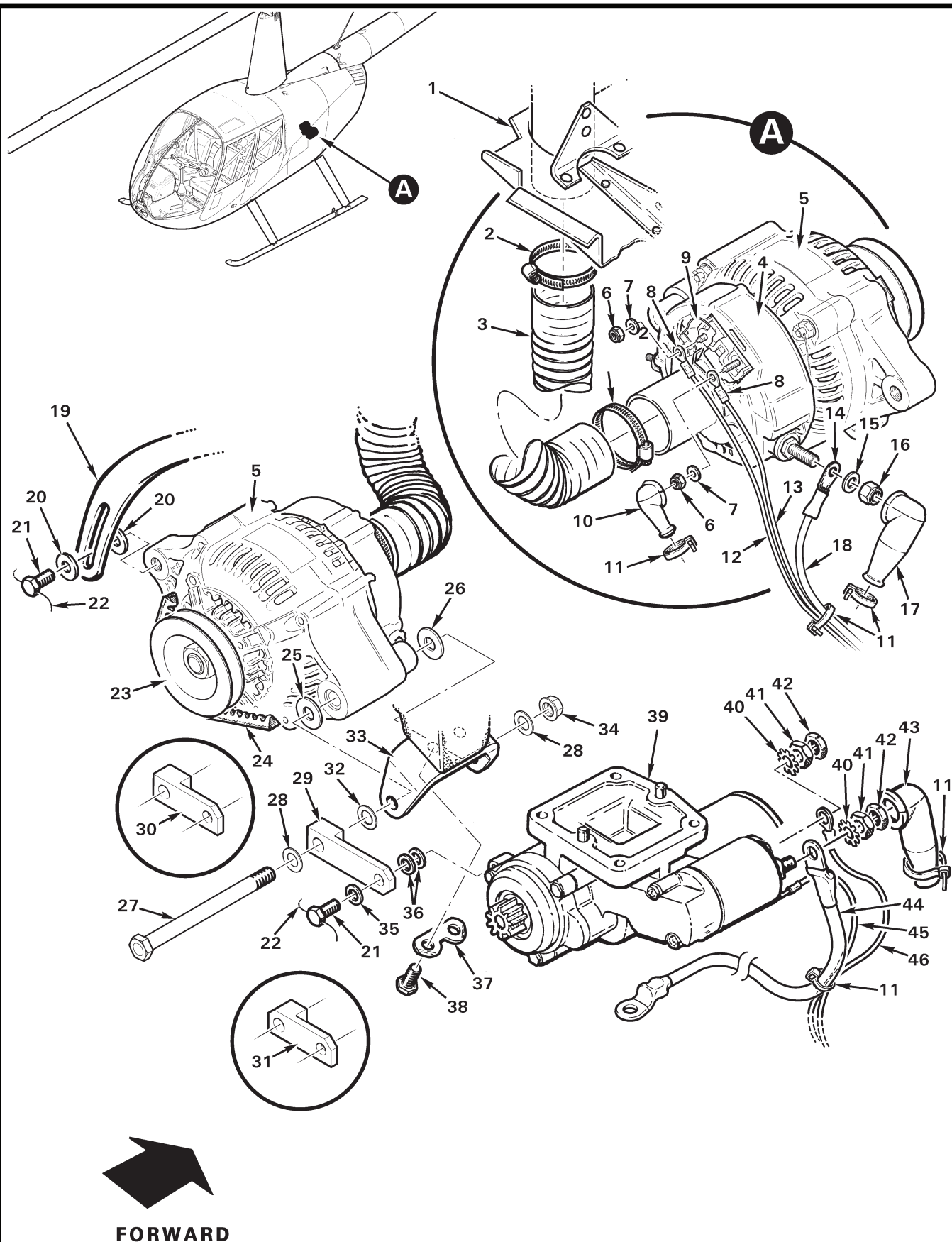
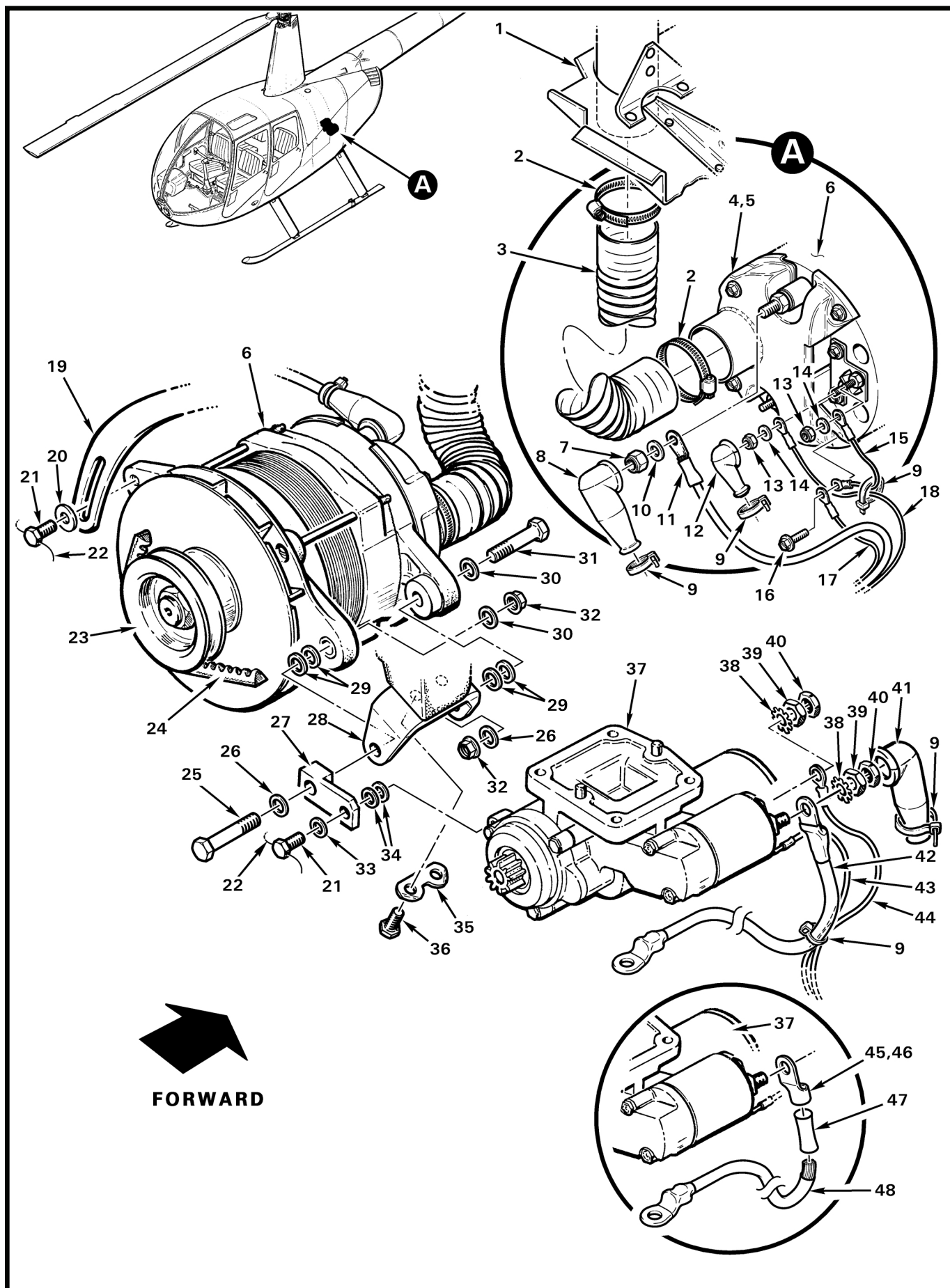


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		ALTERNATOR AND STARTER INSTALLATION		
71-49B-1	D754-4	Baffle Assembly (O-540 ships)	X	1
	D754-1	Baffle Assembly (IO-540 ships)	X	1
2	B277-24	Clamp	X	2
3	A785-32	Hose (1.5-in. dia., 8.25-in. length; see also Figure 71-39) . . .	X	1
4	—	Shroud Weldment	O	1
5	D748-5*	Alternator Assembly – 70 Amp (14-volt ships; lightweight. Incl items 4, 9, and 23.)	X	1
	D748-6*	Alternator Assembly – 70 Amp (28-volt ships; lightweight. Incl items 4, 9, and 23.)	X	1
6	90576A103	Nut	X	1
7	NAS1149FN816P	Washer	X	1
8	B260-3	Terminal	X	1
9	—	Jumper Wire Assembly	O	1
10	MS25171-1S	Nipple	X	1
11	MS3367-4-9	Ty-Rap	X	A/R
12	C859-23	Wire (Ref)		
13	C859-68	Wire (Ref)		
14	B260-26	Terminal	X	1
15	NAS1149F0432P	Washer	X	1
16	94645A205	Nut	X	1
17	MS25171-2S	Nipple	X	1
18	A780-36	Cable Assembly (aft and tailcone batteries)	X	1
	A780-68	Cable Assembly (under seat battery)	X	1
19	B200-3	Arm	X	1
20	STD-1727**	Washer	X	2
21	NAS6605-5	Bolt	X	2
22	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
23	B200-5	Pulley	X	1
24	B173-6***	V-Belt	X	1
25	STD-690**	Washer	X	1
26	STD-690**	Washer (NAS1149F0632P, NAS1149F0663P, and/or NAS1149F0663P as required to fill gap)	X	A/R
NOTES * RH-24-70 (24V) and RH12-70A (12V) alternators; Hartzell Engine Technologies, formerly Plane Power. ** Lycoming part no. *** Use with 31M22972* ring gear. Use B173-1 v-belt with 31M21951* ring gear.				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		ALTERNATOR AND STARTER INSTALLATION (Cont'd)		
71-49B-27	AN6-42A	Bolt	X	1
28	NAS1149F0632P	Washer	X	2
29	B299-3	Link (2.240 inches, center-to-center; for use with Sky-Tech Starters)	X	1
30	B299-1	Link (1.600 inches, center-to-center; for use with B&C Starters)	X	1
31	B299-2	Link (1.530 inches, center-to center; earlier R44s)	X	1
32	NAS1149F0632P	Washer (or NAS1149D0616J as required to fill gap)	X	A/R
33	B200-1	Bracket	X	1
34	D210-7	Nut	X	2
35	STD-35*	Washer	X	1
36	NAS1149F0532P	Washer (or NAS1149F0516P, as required to fill gap)	X	A/R
37	73383*	Lockplate	X	1
38	LW-31-0.94*	Bolt (supplied with engine)	X	2
39	BC315-100-2**	Starter (14-volt ships; includes items 40 and 41.)	X	1
	BC315-100-2R	BC315-100-2** Starter (overhaul exchange)	X	1
	BC315-100-4**	Starter (28-volt ships; includes items 40 and 41.)	X	1
	BC315-100-4R	BC315-100-4** Starter (overhaul exchange)	X	1
40	—	Lockwasher (Ref)		
41	—	Nut (Ref)		
42	B330-16	Palnut (14-volt ships only)	X	2
43	MS25171-2S	Nipple (14-volt aft battery and all 28-volt ships)	X	1
	MS25171-4S	Nipple (14-volt under seat battery, not shown)	X	1
44	A780-65	Cable Assembly (14/28-volt aft battery; 53.5 inches, center-to-center. Includes B274-704 wire, [1] B260-20 and B260-22 terminal, and B158-8 heat shrink.)	X	1
	A780-24	Cable Assembly (28-volt ENG tailcone battery; IO-540 ships. Includes B274-704 wire, [1] B260-20 terminal, and B158-8 heat shrink)	X	1
45	C059-582	Wire (Ref)		
46	B304-20	Fuse Assembly (mates to C859-3115)	X	1
NOTES * Lycoming part no. ** B&C Specialty Products part no.				

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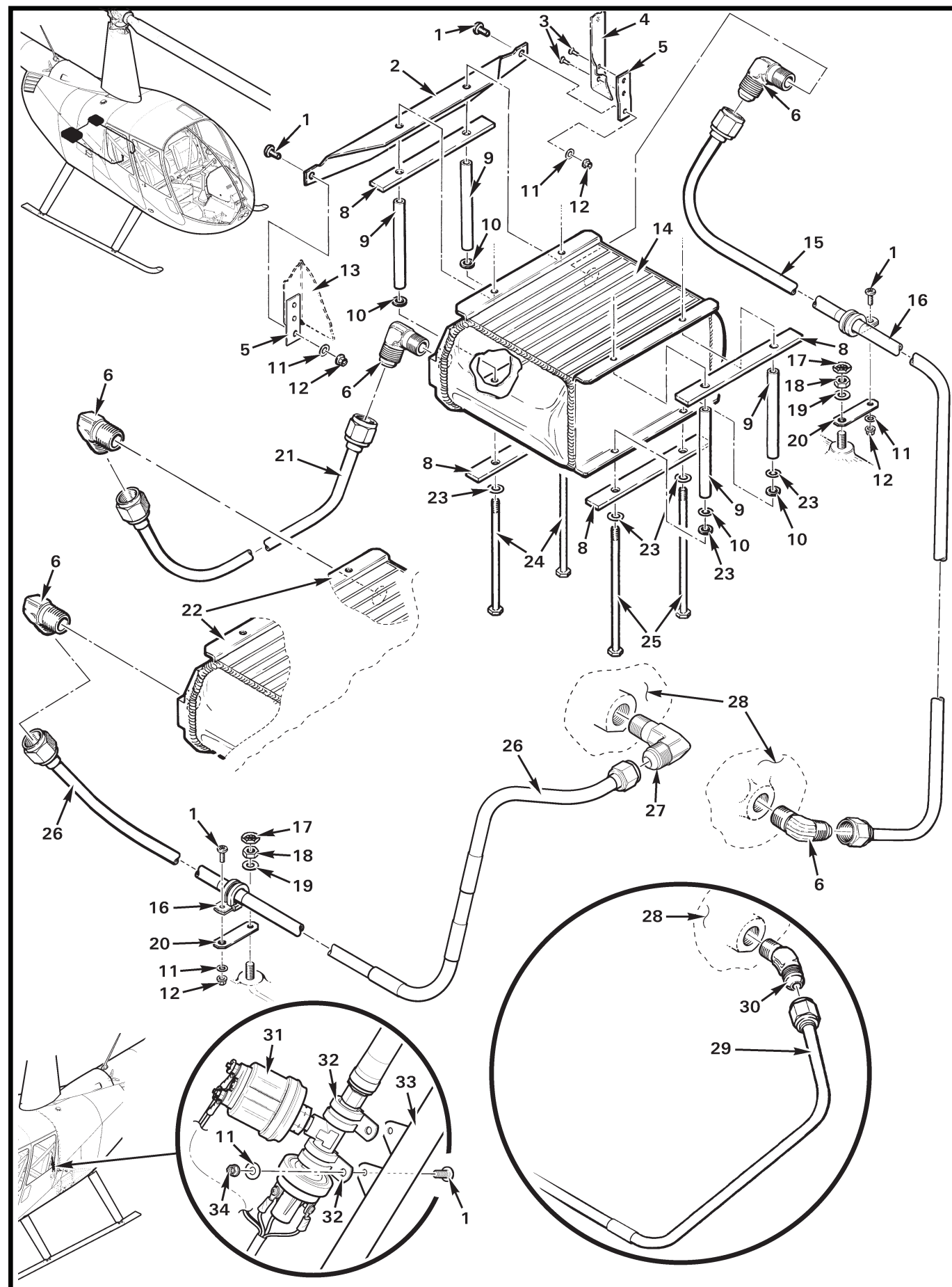


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		OIL SYSTEM*		
79-7-1	MS27039C0806	Screw	X	6
2	D636-2	Support	X	1
3	NAS1097AD4	Rivet	X	2
4	D380-1	Panel (Ref, see also Figure 71-37)		
5	D664-2	Strap	X	2
6	A880-668	Elbow (install using item 7)	X	5
7	B270-6	Sealant	X	A/R
8	A668-1	Doubler	X	4
9	A130-49	Spacer	X	4
10	NAS1149F0363P	Washer	X	4
11	NAS1149FN816P	Washer	X	6
12	MS21042L08	Nut	X	4
13	C310-4	Panel Assembly (Ref, see also Figure 71-37)		
14	C649-3	Oil Cooler (auxiliary)	X	1
15	D753-2	Line Assembly (helicopter-left)	X	1
16	NAS1715C8SW	Clamp	X	2
17	B330-12	Palnut	X	2
18	STD-1411	Nut	X	2
19	NAS1149F0432P	Washer	X	2
20	C357-3	Clip	X	2
21	D753-1	Line Assembly (cooler to cooler)	X	1
22	C649-2	Oil Cooler – Large (main; Ref, see also Figure 79-1)		
23	NAS1149F0332P	Washer	X	4
24	AN3-41A	Bolt (or NAS6603-60)	X	2
25	AN3-44A	Bolt (or NAS6603-68)	X	2
26	A723-18	Line Assembly (outboard, helicopter-right)	X	1
27	A457-21	Elbow (for use with item 26; install using item 7)	X	1
28	C145-2	Engine Assembly (Ref, IO-540-AE1A5)		
29	A723-15	Line Assembly (outboard, helicopter-right)	O	1
30	MS20823-8	Elbow (for use with item 29; install using item 7)	X	1
31	A058-3	Sender Assembly	X	1
32	MS21919WDG9	Clamp	X	2
33	C046	Lower Frame (Ref)		
34	MS21042L08	Nut	X	2

NOTES * Ship S/N 10001 thru 29999.

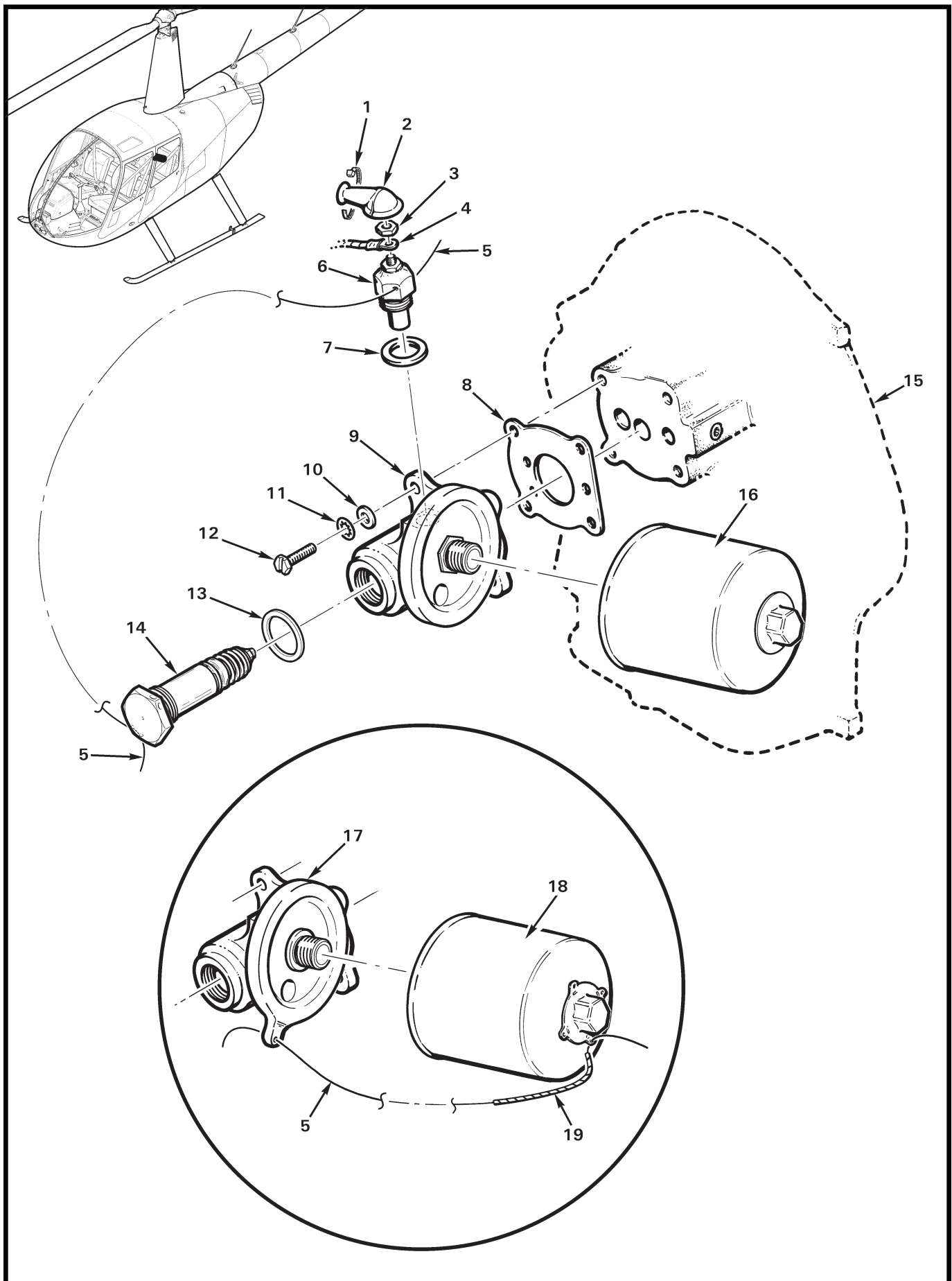


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		OIL FILTER INSTALLATION		
79-9-1	MS3367-4-9	Ty-rap	X	1
2	MS25171-1S	Nipple	X	1
3	—	Nut (Ref)		
4	C049-8	Harness Assembly	X	1
5	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
6	A760	Oil Temperature Sender (Ref; see also Figure 96-49)		
7	15-724	Gasket (Ref; see also Figure 96-49)		
8	61173*	Gasket – Oil Filter Adapter	X	1
9	D723-1	Adapter – Oil Filter (revision “H” and subsequent)	X	1
10	STD-8*	Washer	X	4
11	STD-160*	Lockwasher	X	4
12	STD-1856*	Screw	X	4
13	76510*	Gasket	X	1
14	53E22144*	Thermostatic Oil Cooler Bypass Valve	X	1
15	—	Accessory Housing (Ref)		
16	B123-2	Oil Filter	X	1
17	D723-1	Adapter – Oil Filter (Revision “G” and prior, provisions for safety wire. Ref; no longer available.)		
18	B123-1	Oil Filter (provision for safety wire)	O	1
19	B161-102	Spirap	X	A/R
		* * *		
20	KI-163**	Full-Flow Oil Filter Installation Kit (Incl items 8, 9, 11, 13, and 16)	X	1
NOTES * Lycoming part no. ** For R44s without previously installed oil filter.				

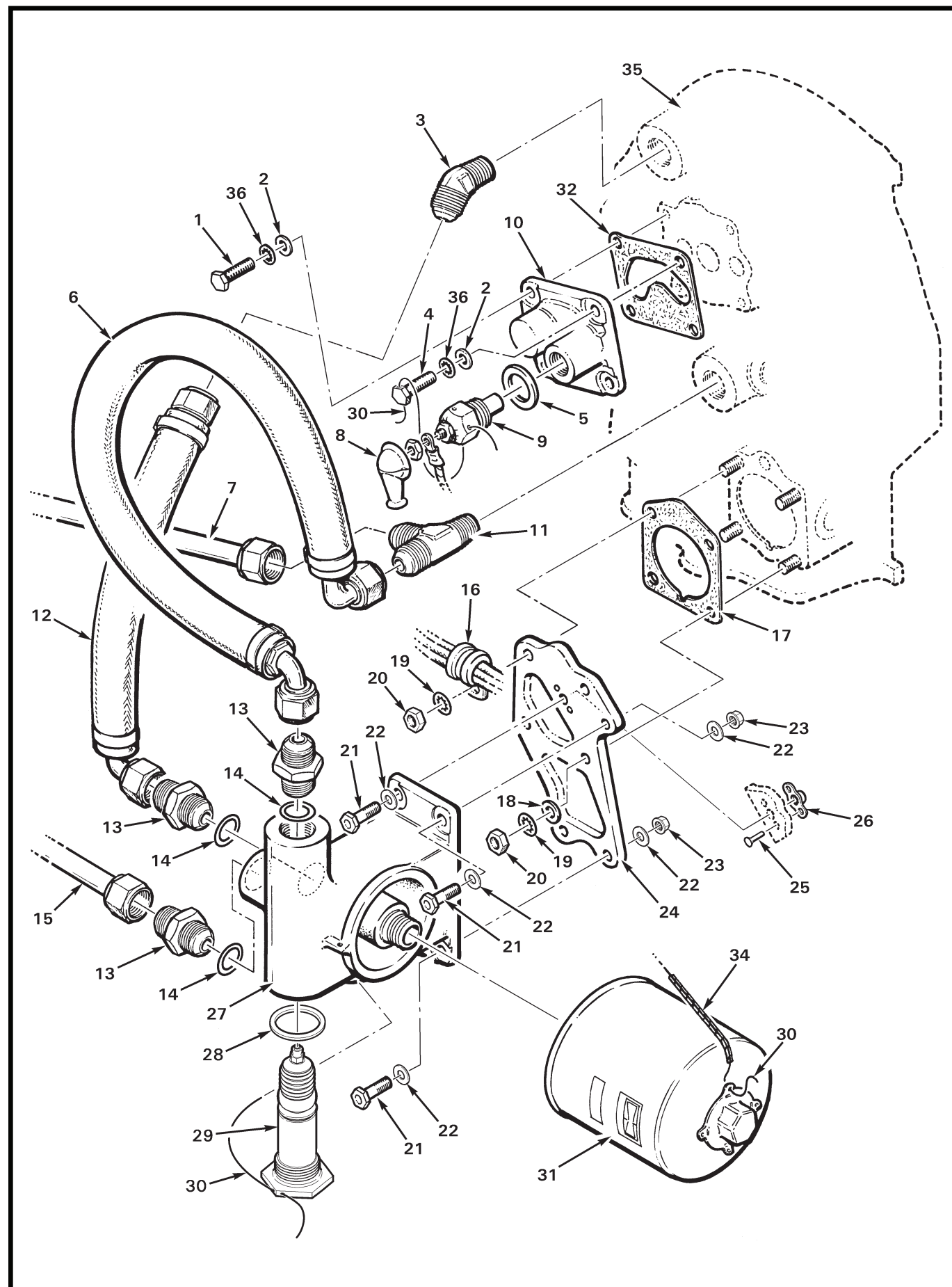


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		OIL FILTER INSTALLATION*		
79-11-1	LW-25-0.94**	Bolt (0.25"-20 x 0.94 in. length)	X	3
2	STD-8**	Washer	X	4
3	MS20823-8	Elbow - 45° (install using item 33)	X	1
4	LW-25H-1.00**	Bolt (0.25"-20 x 1.00 in. length, drilled head)	X	1
5	15-724	Gasket	X	1
6	B283-5	Hose Assembly***	O	1
7	A723-10	Oil Line Assembly*** (return from cooler; use with C649-1 small oil cooler. See also Figure 79-1.)	O	1
	A723-16	Oil Line Assembly (return from cooler; use with C649-2 large oil cooler. See also Figure 79-1.)	X	1
8	MS25171-1S	Nipple	X	1
9	A760-1	Oil Temperature Sender (includes nuts and item 5)	X	1
10	21M21643**	Port Cover - Oil Screen	O	1
11	A880-1168	Tee (install using item 33)	X	1
12	B283-4	Hose Assembly***	O	1
13	A880-968	Union	X	3
14	MS28778-8	Packing	X	3
15	A723-13	Oil Line Assembly*** (out to cooler; use with C649-1 small oil cooler and item 27. See also Figure 79-1.)	O	1
	A723-17	Oil Line Assembly*** (out to cooler; use with C649-2 large oil cooler and item 27. See also Figure 79-1.)	O	1
16	MS21333-113	Clamp	X	1
17	69551**	Gasket	X	1
18	STD-35**	Washer (Ref, supplied with engine)	X	3
19	STD-475**	Washer (Ref, internal teeth, one-time use)	X	4
20	STD-1410**	Nut (Ref, supplied with engine)	X	4
21	NAS6604-8	Bolt	X	4
22	NAS1149F0432P	Washer	X	7
23	D210-4	Nut	X	3
24	B354-1	Plate Assembly (Incl items 25 and 26)	X	1
25	MS20426AD4	Rivet	X	2
26	MS21075L4E	Nutplate	X	1
27	54J21208**	Oil Filter Adapter Assembly***	O	1
NOTES * Ship S/N 1150 and prior. ** Lycoming part no. *** Order KI-163 Full-Flow Oil Filter Installation Kit; see Figure 79-9.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		OIL FILTER INSTALLATION* (Cont'd)		
79-11-28	06E19769-0.63**	Gasket	X	1
29	53E22144**	Bypass Valve Assembly - Thermostatic Oil Cooler	X	1
30	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
31	CH48103-1	Oil Filter (Champion part no.; alternate part no. CH48103)	X	1
32	06B21644**	Gasket	X	1
33	B270-6	Sealant (4-oz. tube)	X	A/R
34	B161-102	Spirap (0.125 in. dia.)	X	A/R
35	21C21539-02**	Housing - Accessory (Ref)		
36	STD-160**	Lockwasher	X	4
NOTES * Ship S/N 1150 and prior. ** Lycoming part no.				

CHAPTER 94

CADET VERSION

<i>Figure</i>	<i>Title</i>	<i>Page</i>
94-1	Cadet Version	94.0
94-3	Cadet Aft Cabin Components	94.2

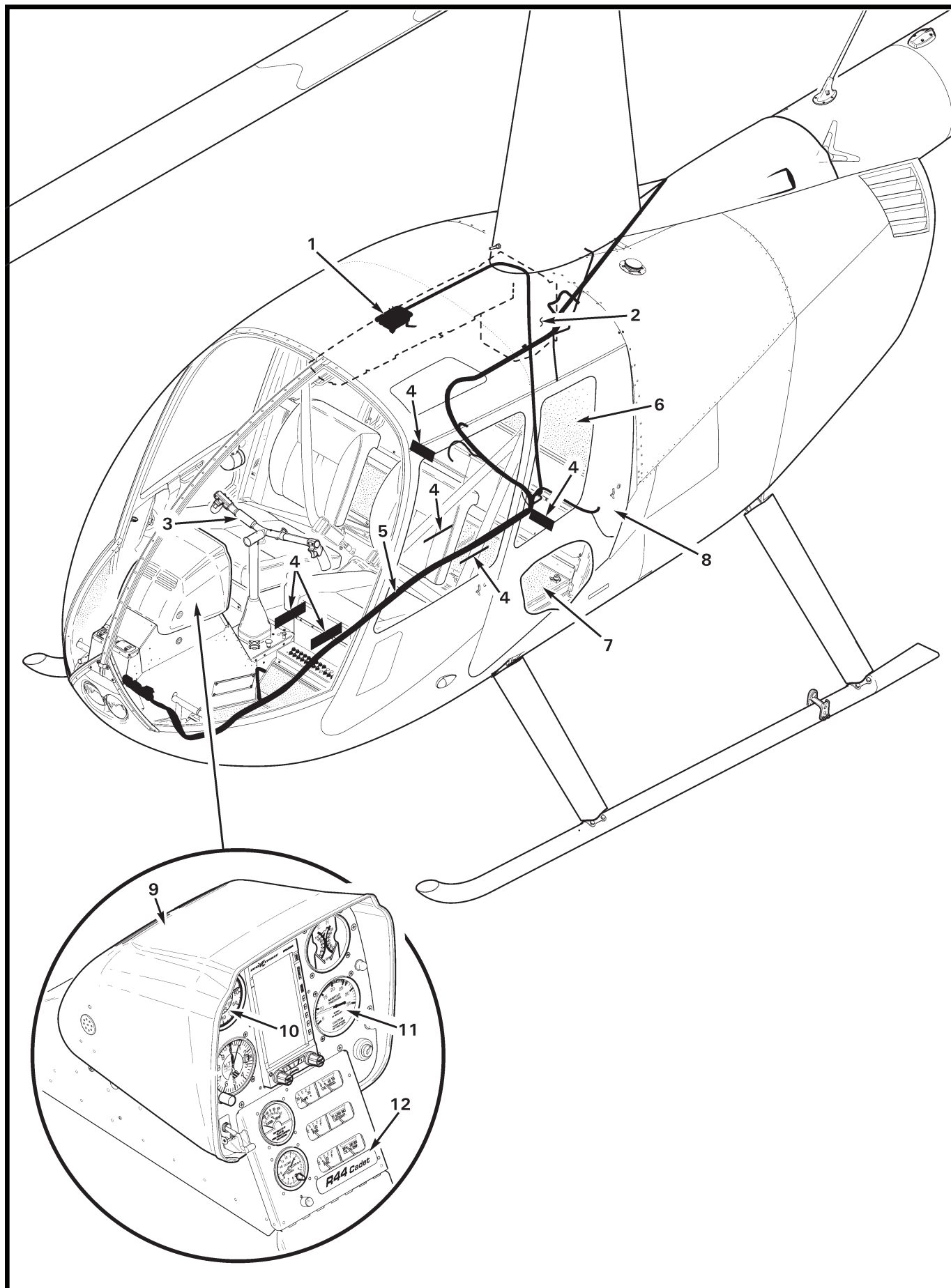


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		R44 CADET VERSION		
94-1-1	C060	Audio System (Ref; no aft audio jacks)		
2	—	Air Conditioning Installation (Ref, optional. See Figures 21-5, 21-11, 21-15, 21-27, and 21-29)		
3	C654	Decal – Limitations (Ref; see Figure 67-15B)		
4	G682	Decals (Ref, see Figures 11-1, and 94-3)		
5	C859	Wire Harness (Ref)		
6	C003	Interior Furnishings (Ref; see Figures 25-29, and 25-33)		
7	—	Aft Cabin Installation (Ref, see Figures 25-5 and 94-3)		
8	C026	Door Assembly – Aft (Ref; see Figure 52-13)		
9	G050	Console Assembly (Ref; see Figures 95-61, 95-65, and 95-69)		
10	C599	Airspeed Indicator (Ref; see Figures 95-61 and 95-65)		
11	A600	Manifold Pressure Gage (Ref; see Figure 95-61 and 95-65)		
12	G054	Plate (Ref; see Figure 95-69)		
NOTES				

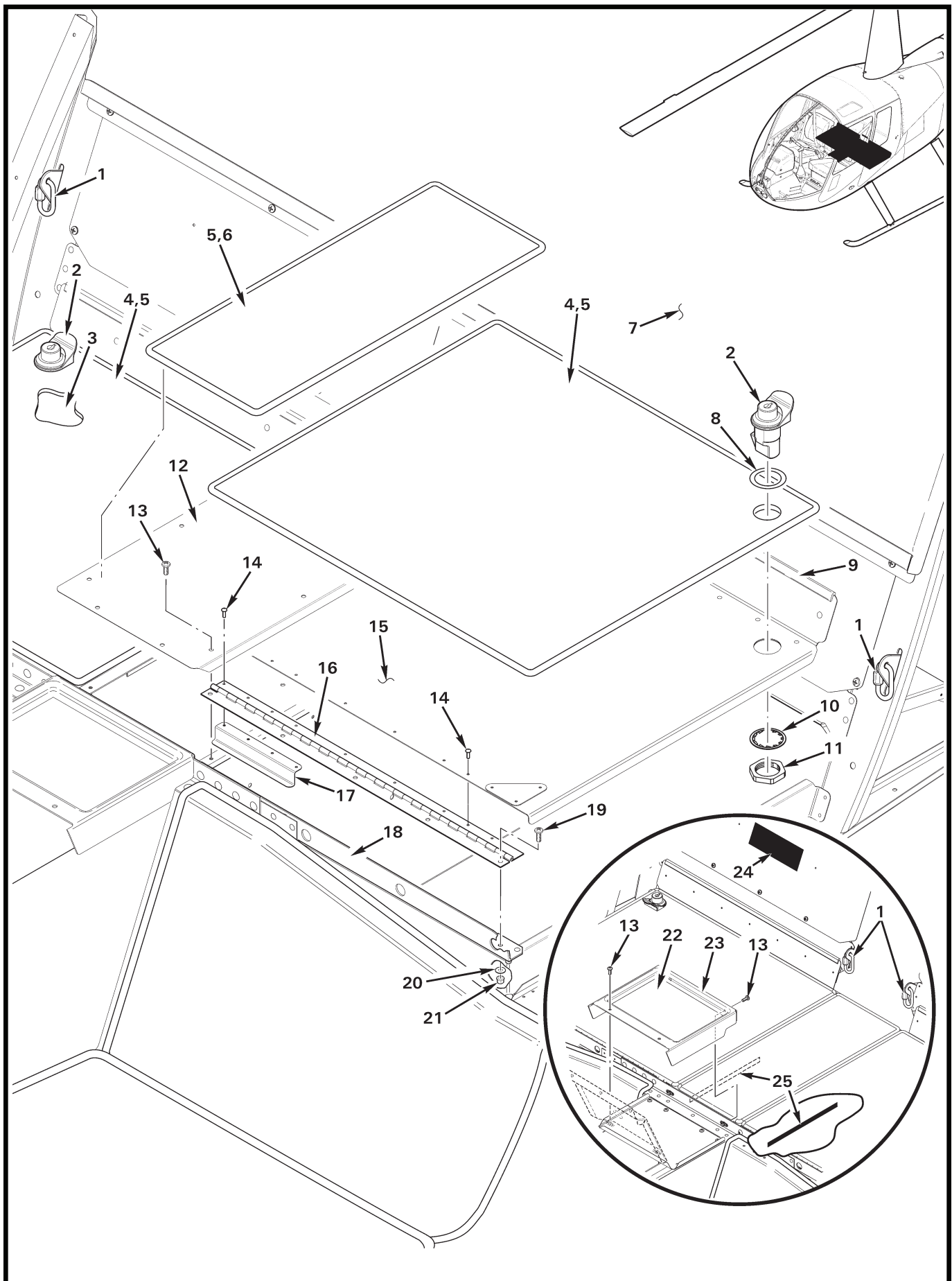


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		CADET AFT CABIN COMPONENTS		
94-3-1	8947T24	Link	X	4
	3712T31	Link (earlier R44s)	O	4
2	93-313	Latch (Incl items 10 and 11)	X	2
3	C703-2	Cover Assembly (RH; includes items 14, 16, and 17)	X	1
4	C469-54*	Carpet Assembly (RH and LH; bond using item 5)	X	2
5	B270-8QT	Adhesive	X	A/R
6	C469-55*	Carpet Assembly (center; bond using item 5)	X	1
7	C003-24	Insulation (Ref, see Figure 25-33)		
8	90089A420	Washer – Shim	X	A/R
9	A226-15	Trim	X	A/R
10	—	Lockwasher	O	1
11	—	Nut	O	1
12	C474-4	Cover	X	1
13	MS27039C0806	Screw	X	A/R
14	MS20470AD3	Rivet	X	32
15	C703-1	Cover Assembly (LH; includes items 14, 16, and 17)	X	1
16	C704-10	Hinge	X	1
17	C704-8	Stiffener	X	1
18	C704-11	Angle Assembly (Ref; see also Figure 25-5)		
19	MS27039C0807	Screw	X	20
20	NAS1149FN816P	Washer	X	20
21	MS21042L08	Nut	X	20
22	C464-3	Pad	X	1
23	C464-1	Tray (Incl item 22)	X	1
24	G682-34	Decal – “DO NOT OCCUPY...” (RH and LH; aft loading instructions)	X	2
25	G682-35	Decal – “COMPARTMENT LOAD LIMIT...”	X	2
NOTES * Available in dark charcoal only.				

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FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SIX-INSTRUMENT CONSOLE ASSEMBLY		
95-61-1	9688K643	Hole Plug (install using item 2)	X	2
2	B270-18	Adhesive	X	A/R
3	C479-1	Mount Assembly (Ref)		
4	B320-1	Horn Assembly (RH and LH, 14-volt; includes items 6 thru 9)	X	2
	B320-3	Horn Assembly (RH and LH, 28-volt; includes items 6 thru 9)	X	2
5	MS27039C0806	Screw	X	6
6	B332-42	Lockwasher	X	1
7	MS35206-241	Screw	X	1
8	B320-79	Wire (to ground)	X	1
9	B263-10	Housing	X	1
	B263-1	Pin	X	1
10	B263-11	Housing (Ref)		
	B263-2	Socket (Ref)		
11	B198-1	Light (amber; includes washer, nut, and amber lens as shown)	X	12
12	B198-2	Light (red; includes washer, nut, and red lens as shown)	X	2
13	B196-1	Lamp (14-volt)	X	1
	B196-21	Lamp (28-volt)	X	1
14	A661-1	Switch – Ignition (Incl items 15, 16, and two keys)	X	1
15	—	Nut	O	1
16	—	Nut	O	1
17	G051-18	Shell Assembly (“High”; includes items 1, 2, 18, 21, 22, and 42)	X	1
18	A226-11	Trim	X	A/R
19	MS33737-13C	Nut – Instrument	X	6
20	A602-1	Rate-of-Climb Indicator	X	1
21	G051-13	Visor Liner (install using item 22)	X	A/R
22	B270-8QT	Adhesive	X	A/R
23	MS3367-5-9	Ty-Rap	X	A/R
24	A655-1	Time Delay – Low Fuel Warning	X	1
25	B280-4	Relay Assembly (governor off lamp)	X	1
26	C792-4	Engine/Rotor Tachometer (14-volt, without alert; superseded by C792-5)	O	1
	C792-5	Engine/Rotor Tachometer (14/28-volt, with alert; not shown)	X	1
	B792-2*	Harness Assembly – Dual Tach (not shown)	X	1
27	MS33737-15C	Nut – Instrument	X	12
NOTES * Required to connect C792-5 tachometer to airframe wiring on R44 ship S/N 2624 and prior, R44 II S/N 10001 thru 14411, except 14364, and R44 Cadet S/N 30001 thru 30070, except 30061.				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		SIX-INSTRUMENT CONSOLE ASSEMBLY (Cont'd)		
95-61-28	D716-010	Harness Assembly – Console (Ref; includes items 14, 23 thru 25, 49, and 52)	X	1
29	MS24693-S32	Screw	X	18
30	C599-1	Airspeed Indicator (130 knot VNE, KM/H)	X	1
	C599-7*	Airspeed Indicator (120 knot VNE, MPH)	X	1
	C599-8*	Airspeed Indicator (120 knot VNE, KM/H; superseded by C599-7)	O	1
31	MS21042L06	Nut	X	4
32	NAS1149FN616P	Washer	X	4
33	B190-6	Cover	X	1
34	G055-10	Face (standard)	X	1
35	MS24693-S27	Screw	X	4
36	A613-1	Altimeter	X	1
37	A743-1	Call Letters Plate (please specify call letters)	X	1
38	A600-4	Manifold Pressure Gage	X	1
	A600-7**	Manifold Pressure Gage	X	1
39	MS24694-S4	Screw	X	6
40	R8096	Key – Duplicate (specify ship S/N and “PK” number when ordering)	X	1
41	D768-2	Key (blank; black plastic-coated “R44” logo)	X	1
42	G054-16	Face Assembly (Incl items 43 and 44)	X	1
43	MS20426AD3	Rivet	X	4
44	A356-2	Hinge (install using item 43)	X	1
45	G051-12	Shell Assembly (“Low”, for earlier R44s. Includes items 1, 2, 18, 21, 22, and 46.)	O	1
46	G054-17	Face Assembly (Incl items 43 and 44)	O	1
47	B260-2	Terminal	X	16
48	—	Washer (Ref)		
49	—	Screw (Ref)		
50	MS25068-23	Switch – Clutch (Incl items 48, 49, 51, 52, and 54)	X	1
51	—	Nut	O	2
52	—	Keywasher	O	1
53	MS25224-1	Guard	X	1
54	—	Lockwasher	O	1
55	G055-11	Face (optional)	X	1
NOTES * Ship S/N 30001 and subsequent. ** Ship S/N 30009 and subsequent.				

CHAPTER 96

ELECTRICAL SYSTEM

<i>Figure</i>	<i>Title</i>	<i>Page</i>
96-1	Aft Battery Installation (14V)	96.0
96-5	Aft Battery Installation (14V)	96.4
96-9	Aft Battery Installation (28V)	96.8
96-12A	Aft Battery Installation (28V)	96.12
96-13A	Aft Battery Installation (28V Lithium-Ion)	96.13
96-15	Aft Battery Installation (28V)	96.14
96-19	Nose Battery Installation (14V)	96.18
96-23	Nose Battery Installation (28V)	96.22
96-27	Nose Battery Installation (28V)	96.26
96-29	Tailcone Battery Installation	96.28
96-31	Tailcone Battery Installation	96.30
96-33	Aft Battery Relay Installation	96.32
96-37	Aft Battery Relay Installation	96.36
96-41	Nose Battery Relay (14V)	96.40
96-43	Tailcone Battery Relay Installation	96.42
96-47	Circuit Breaker Panel	96.46
96-49	Test Switches and Gage Probes	96.48
96-53	Test Switches and Gage Probes	96.52
96-55	Belt Tension Actuator Time Delay and Test Plug	96.54
96-57	Collective-Activated Switch Installation	96.56
96-59	Carbon Monoxide Detector and Dimmer Installation	96.58
96-61	Electrical Components	96.60
96-63	Electrical Components	96.62
96-63B	Electrical Components	96.63A
96-65	Electrical Components	96.64
96-69	Power Booster Installation (14V to 28V)	96.68
96-71	Power Converter Installation (28V to 14V)	96.70
96-73	Power Converter Installation (28V to 14V)	96.72
96-75	Power Converter Installation (28V to 14V)	96.74
96-77	Battery Charging Post Installation	96.76
96-79	Engine Ground Straps Installation	96.78

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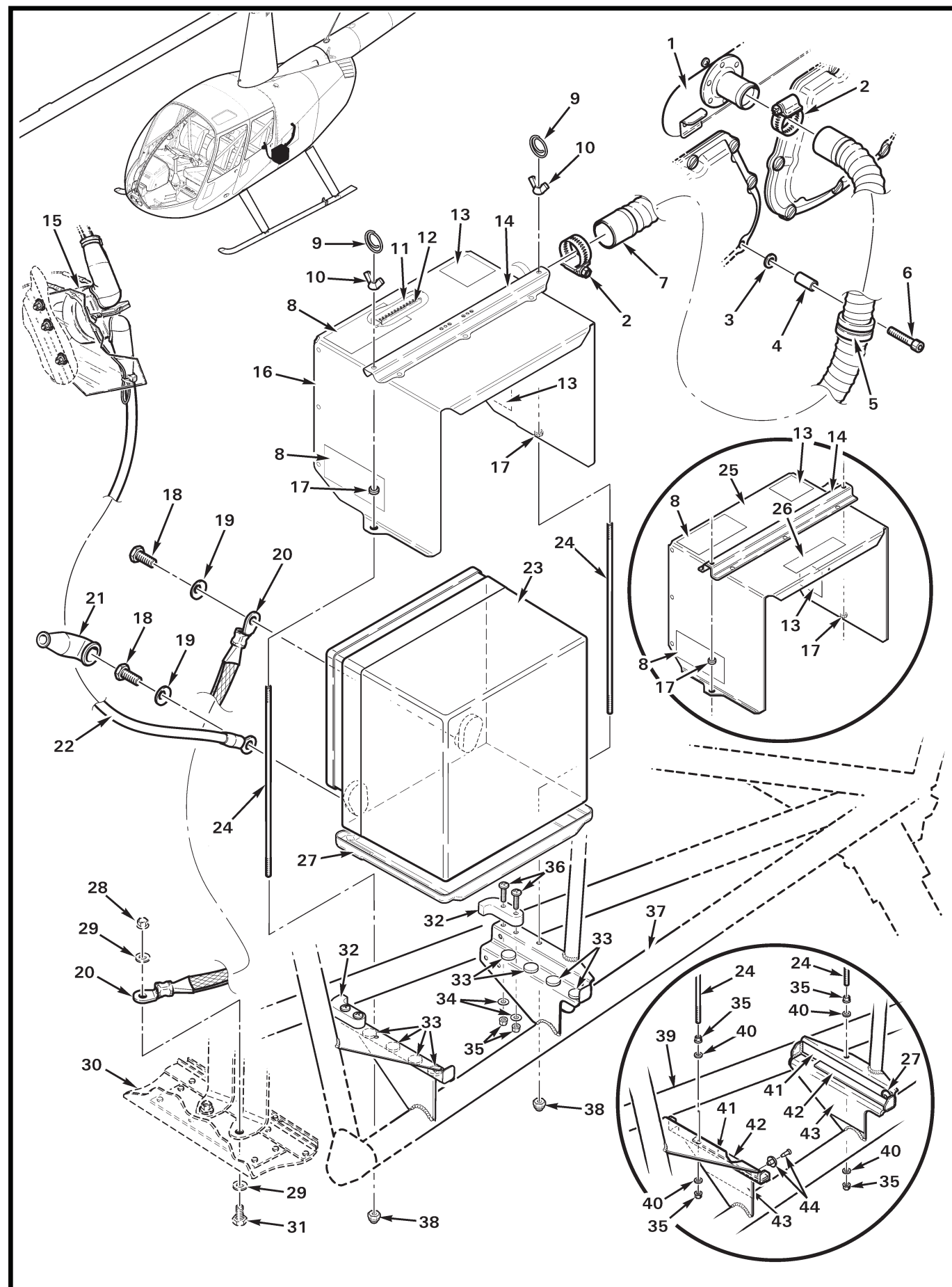


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V)		
96-12A-1	C449-3	Cover Assembly (Ref, see also Figure 71-31)		
2	B277-12	Clamp	X	2
3	NAS1149F0432P	Washer	X	1
4	C130-34	Spacer	X	1
5	MS21333-107	Clamp	X	1
6	NAS1352-4H20P	Screw	X	1
7	A785-35	Hose	X	1
8	C654-43	Decal – “+ 24V”	X	2
9	95390A317	Circle Cotter	X	2
10	94924A009	Wing Nut	X	2
11	A409-1	Angle	X	1
12	A225-1	Grommet	X	A/R
13	C654-45	Decal – “—”	X	2
14	A922-6	Channel (Ref)	X	1
15	B415-2	Relay (Ref, see Figures 96-33 and 96-37)		
16	D809-3	Cover Assembly (Incl items 8, 11 thru 14, and 17)	X	1
17	NAS557-3A	Grommet	X	2
18	—	Bolt (M8)	O	2
19	—	Washer – Conical (M8)	O	2
20	A780-22	Cable Assembly - Battery Negative	X	1
21	MS25171-2S	Nipple	X	1
	MS25171-4S	Nipple (superseded by MS25171-2S, this location)	X	1
22	A780-46	Cable Assembly – Battery Positive	X	1
23	B237-4	Battery (Sealed case, 24-volt; includes items 18 and 19. Concorde part no. RG24-15.)	X	1
24	A923-10	Rod	X	2
25	D809-1	Cover Assembly (Incl items 8, 13, 14, 17, and 26)	X	1
26	C654-21	Decal - “Caution; Install Only Sealed Maintenance-Free Battery”	X	1
27	G123-3	Tray (for B237-4 Battery)	X	1
28	D210-4	Nut (Ref)		
29	NAS1149F0432P	Washer (Ref)		
30	C015-3	Skin (LH cabin belly; Ref)		
31	AN4-4A	Bolt (Ref)		
32	D131-2	Retainer	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V) (Cont'd)		
96-12A-33	G405-2	Bumper	X	8
34	NAS1149FN816P	Washer	X	4
35	MS21042L08	Nut	X	6
36	MS27039C0810	Screw	X	2
37	C046-26	Frame (Ref)		
38	B340-4	Nut	X	2
39	C046-23	Frame (Ref; see Figure 53-19)		
40	NAS620-8L	Washer	X	4
41	A701-3	Tape (0.5 in. wide polyethylene)	X	A/R
42	D832-1	Strip	X	2
43	PPR-4850B	Push Rivet	X	1
NOTES				

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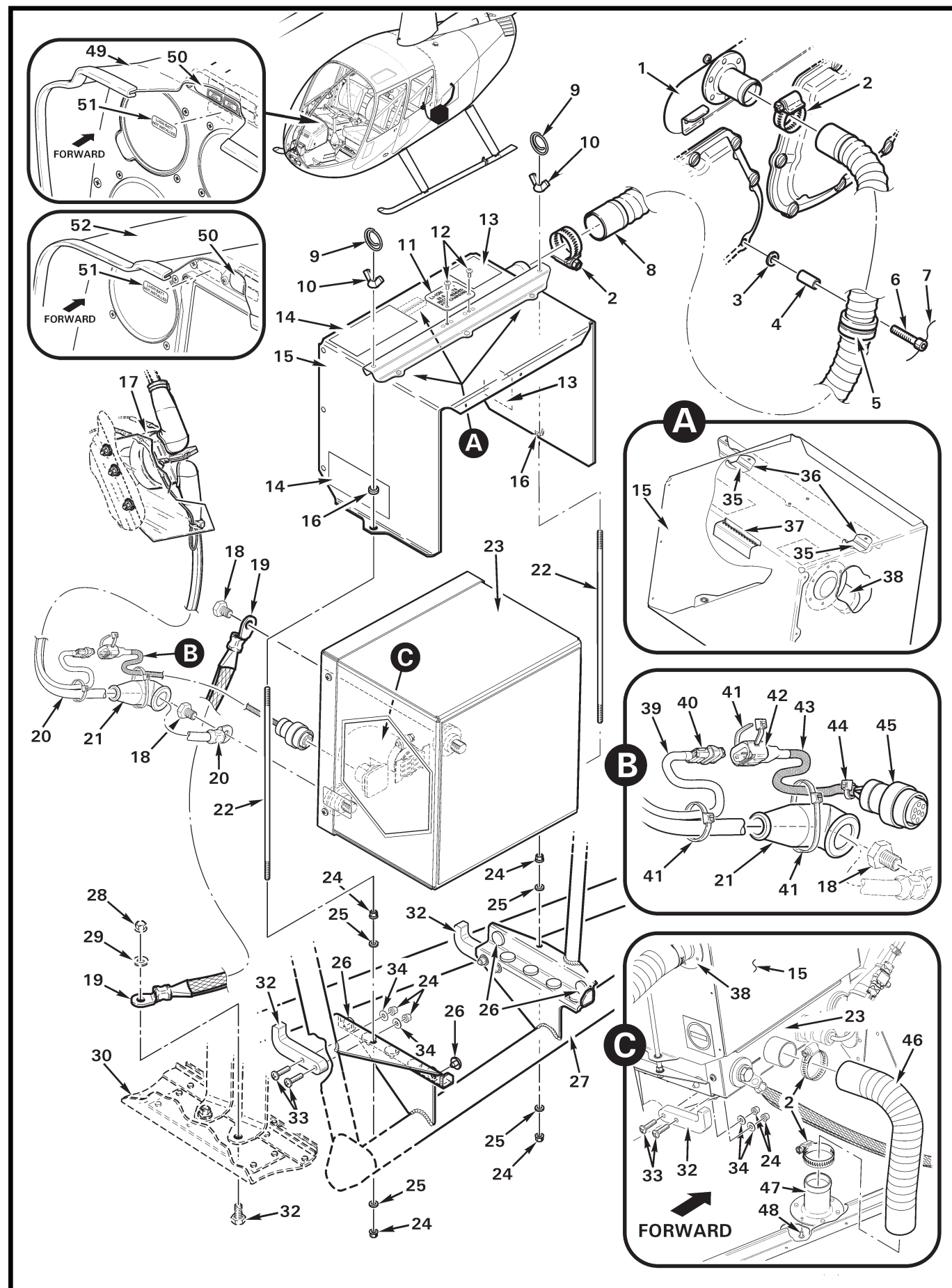


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V LITHIUM-ION)		
96-13A-1	C449-3	Cover Assembly (Ref, see also Figure 71-31)		
2	B277-12	Clamp	X	2
3	NAS1149F0432P	Washer	X	1
4	C130-34	Spacer	X	1
5	MS21333-107	Clamp	X	1
6	NAS1352-4H20P	Screw	X	1
7	MS20995C32	0.032-in. dia. Safety Wire	X	A/R
8	A785-35	Hose	X	1
9	95390A317	Circle Cotter	X	2
10	94924A009	Wingnut	X	2
11	G598-4	Cover	X	1
12	MS35206-213	Screw	X	2
13	C654-45	Decal – “—”	X	2
14	C654-43	Decal – “+ 24V”	X	2
15	D809-3	Cover Assembly (Incl items 13, 14, 16, and 35 thru 38)	X	1
16	NAS557-3A	Grommet	X	2
17	B415-2	Relay (Ref, see Figure 96-33 and Figure 96-37)		
18	—	Bolt (M8)	O	2
19	A780-22	Cable Assembly – Battery Negative	X	1
20	A780-46	Cable Assembly – Battery Positive	X	1
21	MS25171-2S	Nipple	X	1
22	A923-10	Rod	X	2
23	D237-2	Battery (Sealed case, Lithium-Ion, 24-volt; includes item 18. Mid-Continent part no. 6430017-2 (TB17).)	X	1
24	MS21042L08	Nut	X	4
25	NAS620-8L	Washer	X	4
26	G405-2	Bumper	X	4
27	C046-26	Frame (Ref)		
28	D210-4	Nut (Ref)		
29	NAS1149F0432P	Washer (Ref)		
30	C015-3	Skin (LH cabin belly; Ref)		
31	AN4-4A	Bolt (Ref)		
32	D131-3	Retainer	X	2
NOTES				
Continues				

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V LITHIUM-ION) (Cont'd)		
96-13A-33	MS27039C0810	Screw	X	4
34	NAS1149FN816P	Washer	X	4
35	A701-3	Tape	X	A/R
36	A922-7	Bumper (Ref)		
37	A225-1	Grommet (1.95-inch length)	X	1
38	A372-1	Tube (Ref)		
39	C859	Harness Assembly – Electrical (Ref, cabin; includes item 40)		
40	D269-2	Receptacle (Ref)		
	C859-2819	Wire (Ref)		
	C859-2882	Wire (Ref)		
41	MS3367-5-9	Ty-Rap	X	A/R
42	D269-1	Plug	X	1
43	F693-6	Harness Assembly (Incl items 42, 44, and 45)	X	1
44	MS3367-4-0	Ty-rap	X	1
45	9018048	Plug	X	1
46	A785-42	Hose	X	1
47	A372-1	Tube	X	1
48	MS20470AD3	Rivet	X	6
49	G050	Console Assembly (Ref)		
50	G198	Panel (Ref)		
51	D819-9*	Decal	X	1
52	G060	Console Assembly (Ref)		

NOTES * When D237-2 is not installed.

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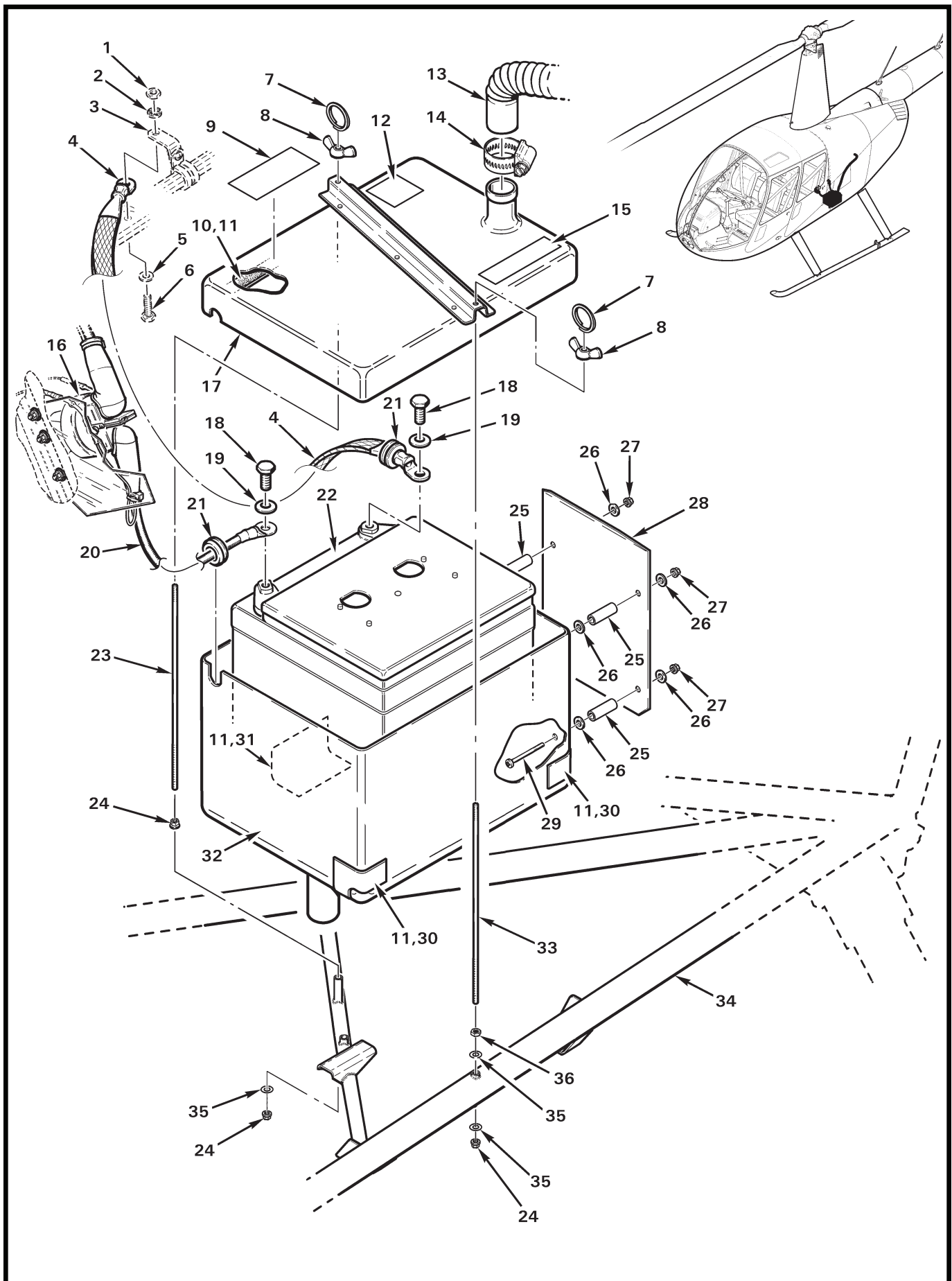


FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V)*		
96-15-1	STD-1411**	Nut (Ref)		
2	STD-160**	Lockwasher (Ref)		
3	C357-1	Clip (Ref)		
4	A780-2	Cable Assembly - Battery Negative	X	1
5	STD-8**	Washer (Ref)		
6	LW-25-1.13**	Bolt (Ref)		
7	95390A317	Circle Cotter	X	2
8	94924A009	Wingnut	X	2
9	C654-43	Decal - "24V" (28-volt ships)	X	1
10	R5556	Seal (install using item 11)	X	A/R
11	B270-8QT	Adhesive	X	A/R
12	C654-45	Decal - "—"	X	1
13	A785-22	Hose	X	1
14	B277-12	Clamp	X	2
15	C654-21	Decal - "Caution; Install Only Sealed Maintenance Free Battery"	X	1
16	B415-2	Relay (Ref, 28-volt ships; see Figure 96-33 and Figure 96-37 for complete installation.)		
17	C955-6	Cover Assembly (28-volt ships; includes items 9, 10, 12 and 15)	O	1
18	—	Bolt (M8)	O	2
19	—	Washer - Conical (M8)	O	2
20	A780-25	Cable Assembly - Battery Positive	X	1
21	MS35489-40	Grommet	X	2
22	B237-4	Battery (Sealed case, 24-volt; includes items 18 and 19. Concorde part no. RG24-15.)	X	1
23	A923-6	Rod (inboard)	X	1
24	MS21042L08	Nut	X	3
25	A130-15	Spacer	X	4
26	NAS1149F0363P	Washer	X	8
27	D210-3	Nut	X	16
28	A954-1	Shield	X	1
29	MS27039C1-24	Screw	X	4
NOTES * When C046-1 or -19 lower frame is installed. ** Lycoming part no.				
				Continues

FIGURE AND INDEX NUMBER	PART NUMBER	DESCRIPTION	PARTS AVAIL	QTY PER ASSY
		AFT BATTERY INSTALLATION (28V)* (Cont'd)		
96-15-30	A955-4	Pad (install using item 11)	X	2
31	A955-3	Pad (install using item 11)	X	1
32	C955-5	Battery Box Assembly (28-volt ships; includes items 11, 17, 25 thru 29, 30, and 31)	X	1
33	A923-5	Rod (outboard)	X	1
34	C046-1 or -19	Frame (Ref)		
35	NAS1149FN816P	Washer	X	3
36	AN340-8	Nut	X	1
NOTES * When C046-1 or -19 lower frame is installed.				

CHAPTER 100

REVISION LOG

<i>Figure</i>	<i>Title</i>	<i>Page</i>
—	Revision Log	100.0

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REVISION LOG

DEC 2021

The R44 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.

Please visit www.robinsonheli.com to verify the issue or revision date is current.

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
i	DEC 2021	6.7	JAN 2014	6.38	APR 2016
ii	DEC 2021	6.8	JAN 2014		
iii	DEC 2021	6.9	JAN 2014	8.i	APR 2016
iv	DEC 2021	6.10	JAN 2014	8.0	APR 2016
v	DEC 2021	6.11	JAN 2014	8.1	APR 2016
vi	DEC 2021	6.12	JAN 2014	8.2	APR 2016
vii	DEC 2021	6.13	FEB 2020	8.3	APR 2016
viii	DEC 2021	6.14	FEB 2020	8.4	APR 2016
ix	DEC 2021	6.15	APR 2016		
x	DEC 2021	6.16	APR 2016	9.i	JAN 2014
xi	DEC 2021	6.17	APR 2016	9.0	JAN 2014
xii	DEC 2021	6.18	APR 2016	9.1	FEB 2020
xiii	DEC 2021	6.19	FEB 2020	9.2	FEB 2020
xiv	DEC 2021	6.20	FEB 2020	9.3	JAN 2014
xv	DEC 2021	6.21	JAN 2014	9.4	JAN 2014
xvi	DEC 2021	6.22	JAN 2014	9.5	JAN 2014
xvii	DEC 2021	6.23	JAN 2014	9.6	JAN 2014
xviii	DEC 2021	6.24	JAN 2014	9.7	JAN 2014
xix	DEC 2021	6.25	JAN 2014	9.8	JAN 2014
xx	DEC 2021	6.26	JAN 2014	9.9	JAN 2014
xxi	DEC 2021	6.27	FEB 2020	9.10	JAN 2014
xxii	DEC 2021	6.28	FEB 2020	9.11	JAN 2014
		6.29	APR 2016	9.12	JAN 2014
6.i	APR 2016	6.30	APR 2016		
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6.4	JAN 2014	6.35	APR 2016	10.3	JAN 2014
6.5	JAN 2014	6.36	APR 2016	10.4	JAN 2014
6.6	JAN 2014	6.37	APR 2016	10.5	JAN 2014

REVISION LOG
DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
10.6	JAN 2014	21.2	FEB 2020	21.38	JAN 2014
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10.8	FEB 2020	21.4	FEB 2020	21.40	JAN 2014
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12.0	JAN 2014	21.22	JAN 2014	25.2	DEC 2021
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18.3	JAN 2014	21.30	FEB 2020	25.10	DEC 2021
18.4	JAN 2014	21.31	JAN 2014	25.11	DEC 2021
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21.0	FEB 2020	21.36	JAN 2014	25.16	DEC 2021
21.1	FEB 2020	21.37	JAN 2014	25.17	DEC 2021

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
25.18	DEC 2021	28.i	DEC 2021	28.35	DEC 2021
25.19	DEC 2021	28.0	DEC 2021	28.36	DEC 2021
25.20	DEC 2021	28.1	DEC 2021	28.37	DEC 2021
25.21	DEC 2021	28.2	DEC 2021	28.38	DEC 2021
25.22	DEC 2021	28.3	DEC 2021	28.39	FEB 2020
25.23	DEC 2021	28.4	DEC 2021	28.40	FEB 2020
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25.31	DEC 2021	28.12	FEB 2020	29.3	FEB 2020
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25.50	DEC 2021	28.33	DEC 2021	32.3	APR 2016
		28.34	DEC 2021	32.4	APR 2016

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
32.5	APR 2016	33.2	FEB 2020	52.15	DEC 2021
32.6	APR 2016	33.3	FEB 2020	52.16	DEC 2021
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32.13	APR 2016	33.12	DEC 2021	53.4	APR 2016
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32.15	APR 2016	33.14	DEC 2021	53.6	APR 2016
32.16	APR 2016	33.15	FEB 2020	53.7	APR 2016
32.17	APR 2016	33.16	FEB 2020	53.8	APR 2016
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REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
53.30	APR 2016	63.6	APR 2016	65.2	FEB 2020
53.31	APR 2016	63.7	APR 2016	65.3	JAN 2014
53.32	APR 2016	63.8	APR 2016	65.4	JAN 2014
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53.37	APR 2016	63.13	FEB 2020	65.9	JAN 2014
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53.39	APR 2016	63.15	FEB 2020	65.11	JAN 2014
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62.1	APR 2016	64.i	APR 2016	67.5	FEB 2020
62.2	APR 2016	64.0	APR 2016	67.6	FEB 2020
62.3	FEB 2020	64.1	APR 2016	67.7	APR 2016
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63.4	APR 2016	65.0	JAN 2014	67.15D	JUN 2014
63.5	APR 2016	65.1	FEB 2020	67.16	JUN 2014

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
67.17	FEB 2020	67.53	FEB 2020	67.89	FEB 2020
67.18	FEB 2020	67.54	FEB 2020	67.90	FEB 2020
67.19	APR 2016	67.55	FEB 2020	67.91	FEB 2020
67.20	APR 2016	67.56	FEB 2020	67.92	FEB 2020
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67.23	APR 2016	67.59	FEB 2020	71.0	DEC 2021
67.24	APR 2016	67.60	FEB 2020	71.1	FEB 2020
67.25	JAN 2014	67.61	APR 2016	71.2	FEB 2020
67.26	JAN 2014	67.62	APR 2016	71.3	FEB 2020
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REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
71.30	JAN 2014	71.62	JAN 2014	79.8	DEC 2021
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71.48	JAN 2014	76.11	JAN 2014	90.11	JAN 2014
71.49	DEC 2021	76.12	JAN 2014	90.12	JAN 2014
71.49A	DEC 2021	76.13	JAN 2014	90.13	JAN 2014
71.49B	DEC 2021	76.14	JAN 2014	90.14	JAN 2014
71.49C	DEC 2021	76.15	JAN 2014	90.15	JAN 2014
71.49D	DEC 2021	76.16	JAN 2014	90.16	JAN 2014
71.50	DEC 2021	76.17	FEB 2020	90.17	JAN 2014
71.51	JAN 2014	76.18	FEB 2020	90.18	JAN 2014
71.52	JAN 2014			90.19	JAN 2014
71.53	JAN 2014	79.i	APR 2016	90.20	JAN 2014
71.54	JAN 2014	79.0	APR 2016	90.21	JAN 2014
71.55	JAN 2014	79.1	APR 2016	90.22	JAN 2014
71.56	JAN 2014	79.2	APR 2016	90.23	JAN 2014
71.57	FEB 2020	79.3	APR 2016	90.24	JAN 2014
71.58	FEB 2020	79.4	APR 2016	90.25	JAN 2014
71.59	FEB 2020	79.5	DEC 2021	90.26	JAN 2014
71.60	FEB 2020	79.6	DEC 2021	90.27	JAN 2014
71.61	JAN 2014	79.7	DEC 2021	90.28	JAN 2014

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
90.29	JAN 2014	92.28	JAN 2014	95.14	FEB 2020
90.30	JAN 2014	92.29	JAN 2014	95.15	FEB 2020
		92.30	JAN 2014	95.16	FEB 2020
92.i	FEB 2020	92.31	JAN 2014	95.17	FEB 2020
92.0	FEB 2020	92.32	JAN 2014	95.18	FEB 2020
92.1	JAN 2014	92.33	JAN 2014	95.19	FEB 2020
92.2	JAN 2014	92.34	JAN 2014	95.20	FEB 2020
92.3	JAN 2014	92.35	FEB 2020	95.21	FEB 2020
92.4	JAN 2014	92.36	FEB 2020	95.22	FEB 2020
92.5	JAN 2014	92.37	FEB 2020	95.23	FEB 2020
92.6	JAN 2014	92.38	FEB 2020	95.24	FEB 2020
92.7	JAN 2014			95.25	FEB 2020
92.8	JAN 2014	94.i	DEC 2021	95.26	FEB 2020
92.9	JAN 2014	94.0	DEC 2021	95.27	FEB 2020
92.10	JAN 2014	94.1	DEC 2021	95.28	FEB 2020
92.11	JAN 2014	94.2	DEC 2021	95.29	FEB 2020
92.12	JAN 2014	94.3	DEC 2021	95.30	FEB 2020
92.13	JAN 2014	94.4	DEC 2021	95.31	FEB 2020
92.14	JAN 2014			95.32	FEB 2020
92.15	JAN 2014	95.i	FEB 2020	95.33	FEB 2020
92.16	JAN 2014	95.ii	FEB 2020	95.34	FEB 2020
92.17	FEB 2020	95.iii	FEB 2020	95.35	FEB 2020
92.17A	FEB 2020	95.0	FEB 2020	95.36	FEB 2020
92.17B	FEB 2020	95.1	FEB 2020	95.37	FEB 2020
92.17C	FEB 2020	95.2	FEB 2020	95.38	FEB 2020
92.17D	FEB 2020	95.3	FEB 2020	95.39	FEB 2020
92.18	FEB 2020	95.4	FEB 2020	95.40	FEB 2020
92.19	FEB 2020	95.5	FEB 2020	95.41	FEB 2020
92.20	FEB 2020	95.6	FEB 2020	95.42	FEB 2020
92.21	JAN 2014	95.7	FEB 2020	95.43	FEB 2020
92.22	JAN 2014	95.8	FEB 2020	95.44	FEB 2020
92.23	JAN 2014	95.9	FEB 2020	95.45	FEB 2020
92.24	JAN 2014	95.10	FEB 2020	95.46	FEB 2020
92.25	JAN 2014	95.11	FEB 2020	95.47	FEB 2020
92.26	JAN 2014	95.12	FEB 2020	95.48	FEB 2020
92.27	JAN 2014	95.13	FEB 2020	95.49	FEB 2020

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
95.50	FEB 2020	96.i	DEC 2021	96.27	JAN 2014
95.51	FEB 2020	96.ii	DEC 2021	96.28	JAN 2014
95.52	FEB 2020	96.iii	JAN 2014	96.29	JAN 2014
95.53	FEB 2020	96.0	JAN 2014	96.30	JAN 2014
95.54	FEB 2020	96.1	JAN 2014	96.31	JAN 2014
95.55	FEB 2020	96.2	JAN 2014	96.32	JAN 2014
95.56	FEB 2020	96.3	JAN 2014	96.33	JAN 2014
95.57	FEB 2020	96.4	JAN 2014	96.34	JAN 2014
95.58	FEB 2020	96.5	JAN 2014	96.35	JAN 2014
95.59	FEB 2020	96.6	JAN 2014	96.36	JAN 2014
95.60	FEB 2020	96.7	JAN 2014	96.37	JAN 2014
95.61	DEC 2021	96.8	JAN 2014	96.38	JAN 2014
95.62	DEC 2021	96.9	JAN 2014	96.39	JAN 2014
95.63	FEB 2020	96.10	JAN 2014	96.40	JAN 2014
95.64	FEB 2020	96.11	DEC 2021	96.41	JAN 2014
95.65	FEB 2020	96.12	DEC 2021	96.42	JAN 2014
95.66	FEB 2020	96.12A	DEC 2021	96.43	FEB 2020
95.67	FEB 2020	96.12B	DEC 2021	96.44	FEB 2020
95.68	FEB 2020	96.12C	DEC 2021	96.45	JAN 2014
95.69	FEB 2020	96.13	DEC 2021	96.46	JAN 2014
95.70	FEB 2020	96.13A	DEC 2021	96.47	FEB 2020
95.71	FEB 2020	96.13B	DEC 2021	96.48	FEB 2020
95.72	FEB 2020	96.13C	DEC 2021	96.49	FEB 2020
95.73	FEB 2020	96.14	DEC 2021	96.50	FEB 2020
95.74	FEB 2020	96.15	DEC 2021	96.51	FEB 2020
95.75	FEB 2020	96.16	DEC 2021	96.52	FEB 2020
95.76	FEB 2020	96.17	JAN 2014	96.53	FEB 2020
95.77	FEB 2020	96.18	JAN 2014	96.54	FEB 2020
95.78	FEB 2020	96.19	JAN 2014	96.55	JAN 2014
95.79	FEB 2020	96.20	JAN 2014	96.56	JAN 2014
95.80	FEB 2020	96.21	JAN 2014	96.57	JAN 2014
95.81	FEB 2020	96.22	JAN 2014	96.58	JAN 2014
95.82	FEB 2020	96.23	JAN 2014	96.59	JAN 2014
95.83	FEB 2020	96.24	JAN 2014	96.60	JAN 2014
95.84	FEB 2020	96.25	JAN 2014	96.61	JAN 2014
		96.26	JAN 2014	96.62	JAN 2014

REVISION LOG

DEC 2021

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
96.63	FEB 2020	97.12	FEB 2020	97.46	FEB 2020
96.63A	FEB 2020	97.13	FEB 2020	97.47	FEB 2020
96.63B	FEB 2020	97.14	FEB 2020	97.48	FEB 2020
96.63C	FEB 2020	97.15	FEB 2020	97.49	FEB 2020
96.63D	FEB 2020	97.16	FEB 2020	97.50	FEB 2020
96.64	FEB 2020	97.17	FEB 2020	97.51	FEB 2020
96.65	JAN 2014	97.18	FEB 2020	97.52	FEB 2020
96.66	JAN 2014	97.19	FEB 2020	97.53	FEB 2020
96.67	JAN 2014	97.20	FEB 2020	97.54	FEB 2020
96.68	JAN 2014	97.21	FEB 2020	97.55	FEB 2020
96.69	JAN 2014	97.22	FEB 2020	97.56	FEB 2020
96.70	JAN 2014	97.23	FEB 2020	97.57	FEB 2020
96.71	JAN 2014	97.23A	FEB 2020	97.58	FEB 2020
96.72	JAN 2014	97.23B	FEB 2020	97.59	FEB 2020
96.73	JAN 2014	97.24	FEB 2020	97.60	FEB 2020
96.74	JAN 2014	97.25	FEB 2020	97.61	FEB 2020
96.75	JAN 2014	97.26	FEB 2020	97.62	FEB 2020
96.76	JAN 2014	97.27	FEB 2020		
96.77	JAN 2014	97.28	FEB 2020	99.i	FEB 2020
96.78	JAN 2014	97.29	FEB 2020	99.0	FEB 2020
96.79	JAN 2014	97.30	FEB 2020	99.1	FEB 2020
96.80	JAN 2014	97.31	FEB 2020	99.2	FEB 2020
		97.32	FEB 2020	99.3	FEB 2020
97.i	FEB 2020	97.33	FEB 2020	99.4	FEB 2020
97.0	FEB 2020	97.34	FEB 2020	99.5	FEB 2020
97.1	FEB 2020	97.35	FEB 2020	99.6	FEB 2020
97.2	FEB 2020	97.36	FEB 2020	99.7	FEB 2020
97.3	FEB 2020	97.37	FEB 2020	99.8	FEB 2020
97.4	FEB 2020	97.38	FEB 2020	99.9	FEB 2020
97.5	FEB 2020	97.39	FEB 2020	99.10	FEB 2020
97.6	FEB 2020	97.40	FEB 2020	99.11	FEB 2020
97.7	FEB 2020	97.41	FEB 2020	99.12	FEB 2020
97.8	FEB 2020	97.42	FEB 2020	99.13	FEB 2020
97.9	FEB 2020	97.43	FEB 2020	99.14	FEB 2020
97.10	FEB 2020	97.44	FEB 2020	99.15	FEB 2020
97.11	FEB 2020	97.45	FEB 2020	99.16	FEB 2020

REVISION LOG**DEC 2021**

<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>	<u>Page</u>	<u>Date</u>
99.17	FEB 2020				
99.18	FEB 2020				
100.i	DEC 2021				
100.0	DEC 2021				
100.1	DEC 2021				
100.2	DEC 2021				
100.3	DEC 2021				
100.4	DEC 2021				
100.5	DEC 2021				
100.6	DEC 2021				
100.7	DEC 2021				
100.8	DEC 2021				
100.9	DEC 2021				
100.10	DEC 2021				
100.11	DEC 2021				
100.12	DEC 2021				

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