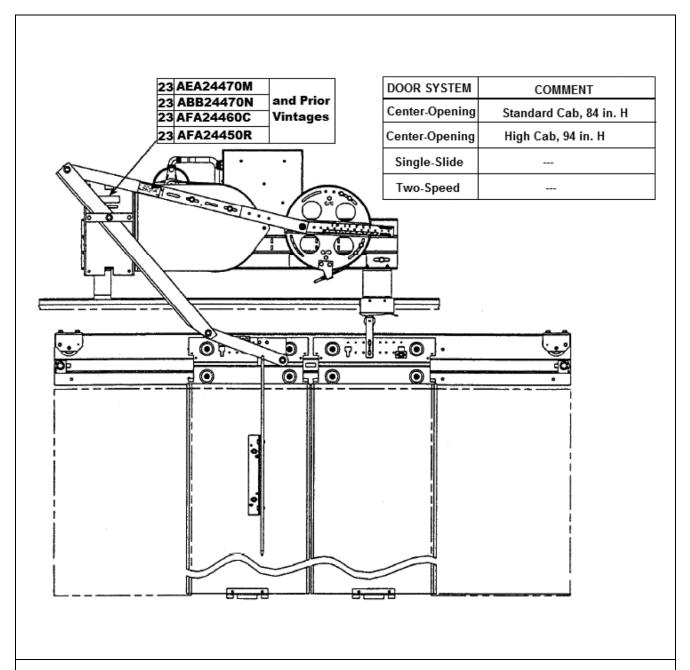
# i-MOTION® II Door Operator Linkage Assemblies

# Spare Parts Leaflet 23-AAA24470M

November 25, 2020 / Page 1 of 19



**OTIS** 

This document does not contain any technical data subject to EAR or ITAR

SERVICE ENGINEERING
Otis Elevator Company
Bloomfield, Connecticut USA

Unpublished Work—© Otis Elevator Co.; 2020

### **History**

### **Leaflet Description**

This leaflet provides spare parts information for i-MOTION<sup>®</sup> II door operator linkage assemblies for center-opening, single-slide, and two-speed doors. It covers AEA24470M, ABB24470N, AFA24460C, and AFA24450R linkage assemblies and their vintages.

#### **Leaflet Revisions**

Date Revised	Subject Matter Expert	Reason for Revision					
March 1, 2001	Duane Stupienski	New leaflet; Initial release					
May 5, 2003	Jeffrey Smith	Vintage Changes:  1. ACA24470M, ABA24470N, ADA24460C, and ADA24450R represent changes in linkage bearings.  2. ADA24470M, AEA24460C, and AEA24450R represent weldless door project changes.					
August 6, 2008	Brian Regan	Added vintage for NG door system					
February 9, 2009	Brian Regan	Corrected SPL reference in ref. 4 on pp. 6 and 10					
January 15, 2014	Brian Regan	Separated SPL into 3 leaflets leaving AEA24470M, ABB24470N, AFA24460C, and AFA24450R and their vintages on the 23-AAA24470M SPL.					
November 25, 2020	Peter Kelley	Added NOTES about p/n COMMBMT-100					

### **Related Drawings**

7			
Drawing No.	Title	Drawing No.	Title
AAA24350BH	Door Operator i-MOTION II C/O, S/S, 2/S	AAA24460C	i-MOTION II and Linkage Assembly for 2/S Doors
AAA24470M	i-MOTION II and Linkage Assembly for C/O Doors	AAA24450R	i-MOTION II and Linkage Assembly for S/S Doors
AAA24470N	i-MOTION II and Linkage Assembly for C/O Doors		

#### **Related Documents**

Document ID	Title
SPL 23-AAA24350BH	Harmonic Drive i-MOTION II Door Operator Engine Unit

### **Subject Matter Expert**

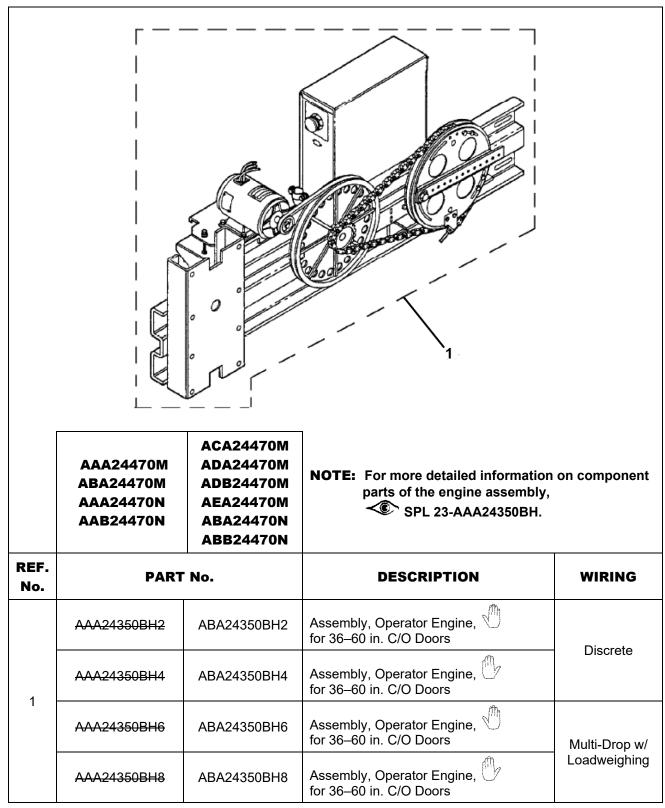
Name	Department	
Peter Kelley	OSC Service Engineering	

#### **About Spare Parts Leaflets...**

This document lists the lowest replaceable units (LRUs) for the standard version of the product. The LRUs are chosen by a team of Otis associates representing engineering and manufacturing.

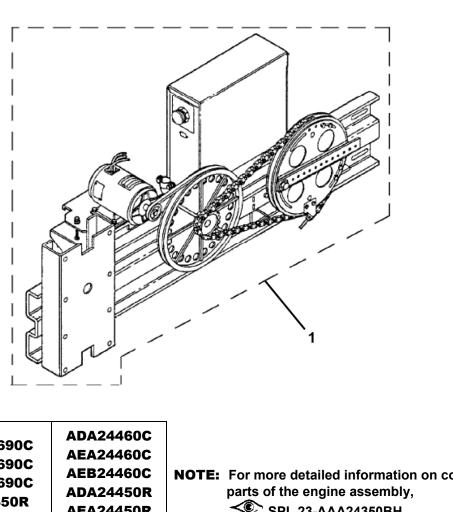
While goal of this document is to make parts identification as easy as possible, the document cannot be all-inclusive. Elevator and escalator contracts classified as "special" or "custom" are not addressed here. For such contracts, please refer to specified information, the contract folder, TIPs, Field Education Articles, Construction Letters, etc. for further information.

If you have any suggestions about this document, please contact the subject matter expert listed on this page.



**NOTE:** When replacing AAA vintage operator, see type ABA24350BH operator engine assembly and purchase a lever arm (p/n AAA395L1) to interface an operator with the existing linkage assembly.

# **AAA24350BH Engine Assembly**



**AAA244690C** ABA244690C ACA244690C **AAA24450R ABA24450R ACA24450R** 

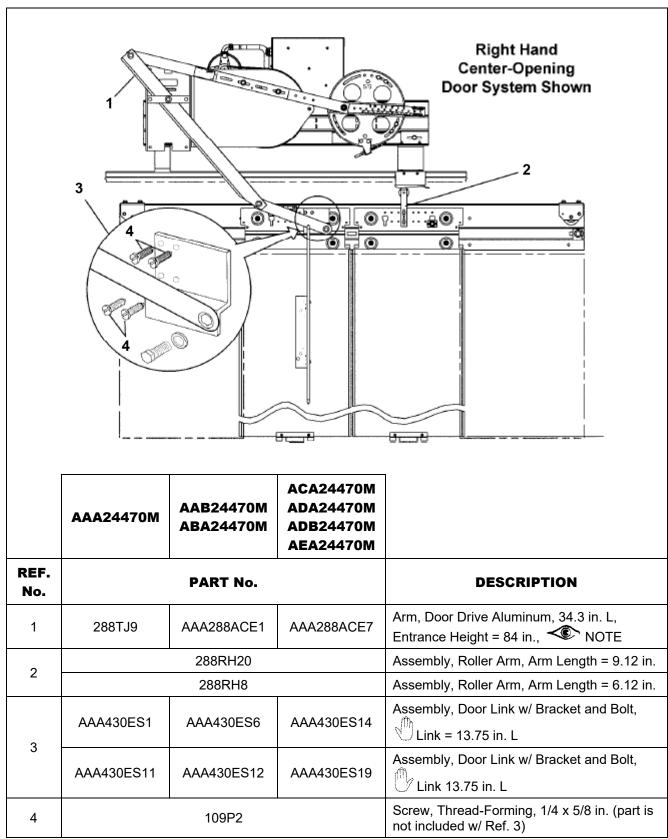
**AEA24450R AEB24450R** AFA24450R

**NOTE:** For more detailed information on component

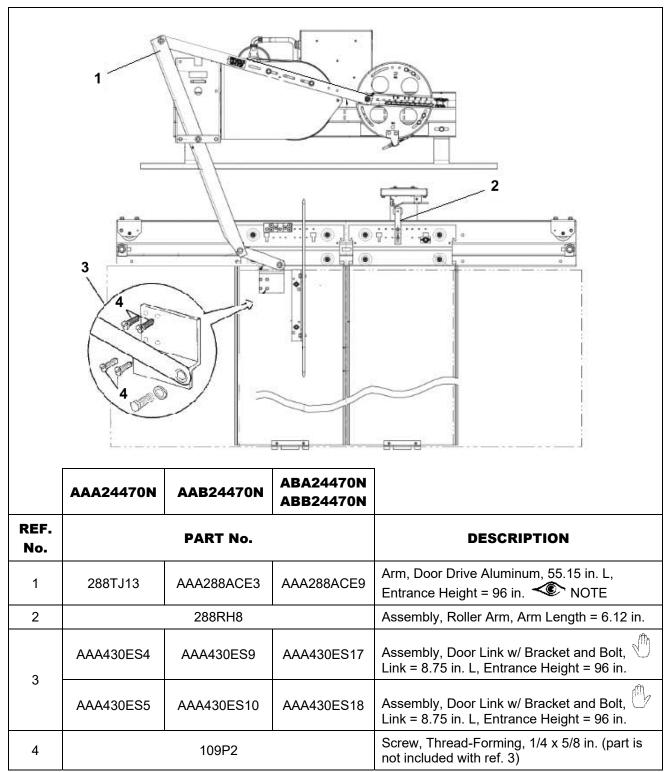
SPL 23-AAA24350BH.

	711712110011				
REF. No.	PART No.		DESCRIPTION	WIRING	
1	AAA24350BH1	ABA24350BH1	Assembly, Operator Engine, for 32–42 in. S/S, and 36–55 in., 2/S Doors	- Discrete	
	AAA24350BH3	ABA24350BH3	Assembly, Operator Engine, of for 32–42 in. S/S. and 36–55 in. 2/S Doors		
	AAA24350BH5	ABA24350BH5	Assembly, Operator Engine, for 32–42 in. S/S, and 36–55 in. 2/S Doors	Multi-Drop w/ Loadweighing	
	AAA24350BH7	ABA24350BH7	Assembly, Operator Engine, of for 32–42 in. S/S, and 36–55 in. 2/S Doors		

NOTE: When replacing AAA vintage operator, see type ABA24350BH operator engine assembly and purchase a lever arm (p/n AAA395L1) to interface an operator with the existing linkage assembly.

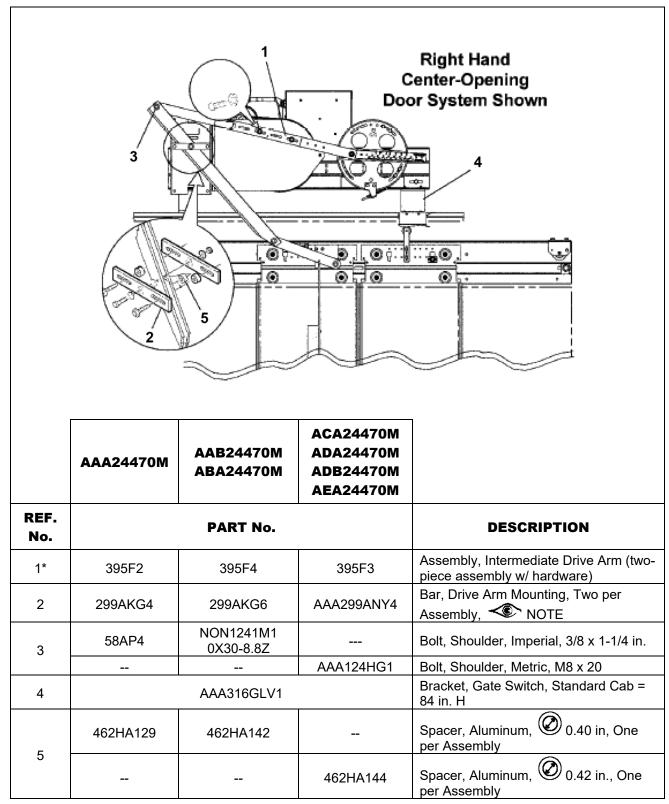


# Linkage Components, C/O Doors, High Cab



### **Linkage Components, C/O Doors**

### 23-AAA24470M

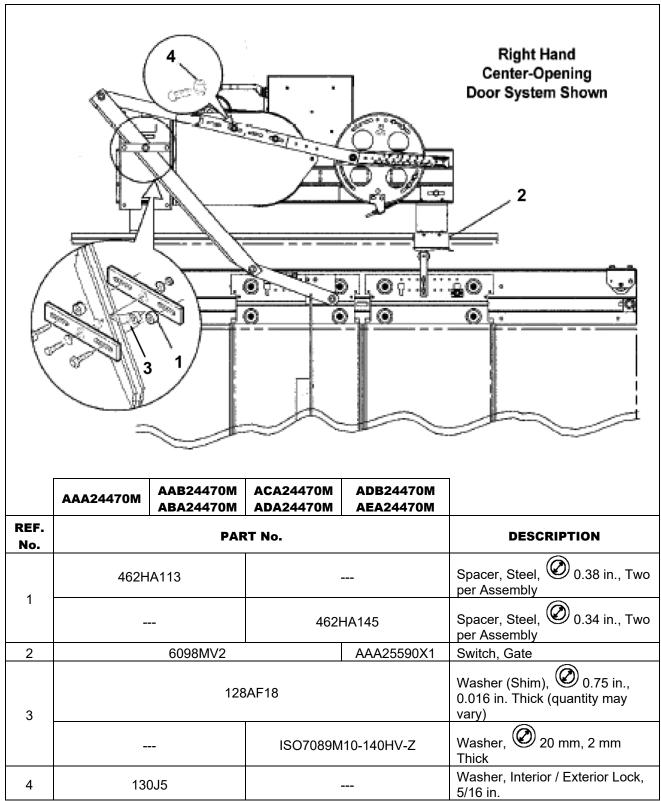


**NOTE:** Early and late vintage parts look identical, but they are not. A different bearing is used and the two are not interchangeable.

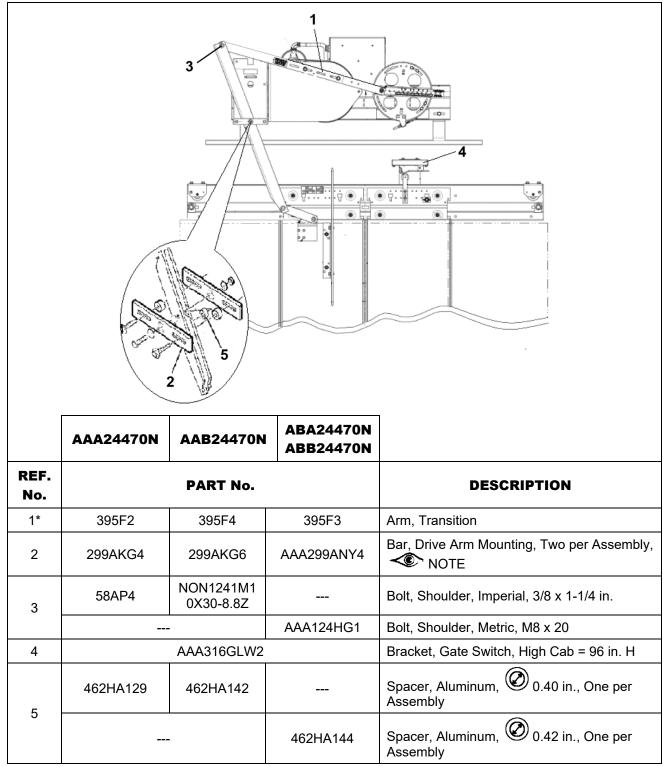
Continued on Next Page

<sup>\*</sup> Bearing removal tool p/n COMMBMT-100

# **Linkage Components, C/O Doors**



# Linkage Components, C/O Doors, High Cab

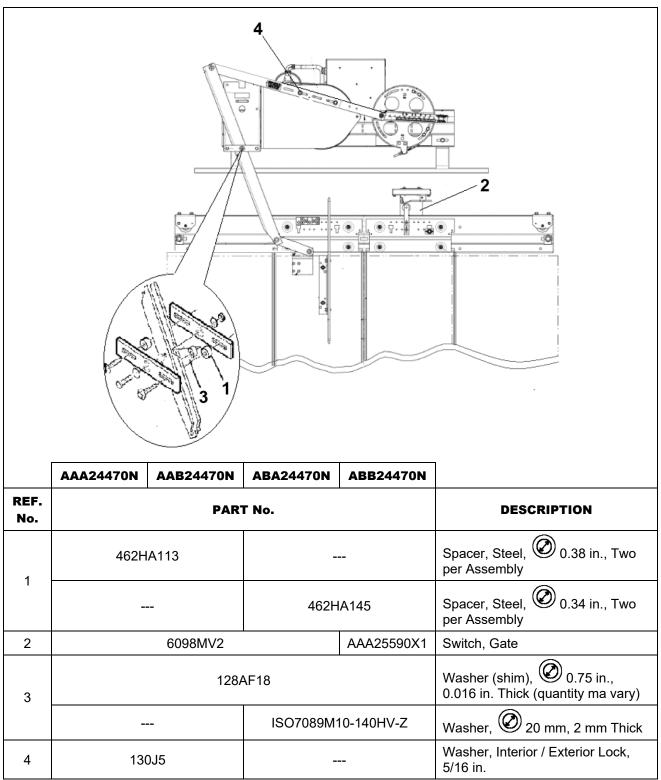


**NOTE:** Early and late vintage parts look identical, but they are not. A different bearing is used and the two are not interchangeable.

Continued on Next page

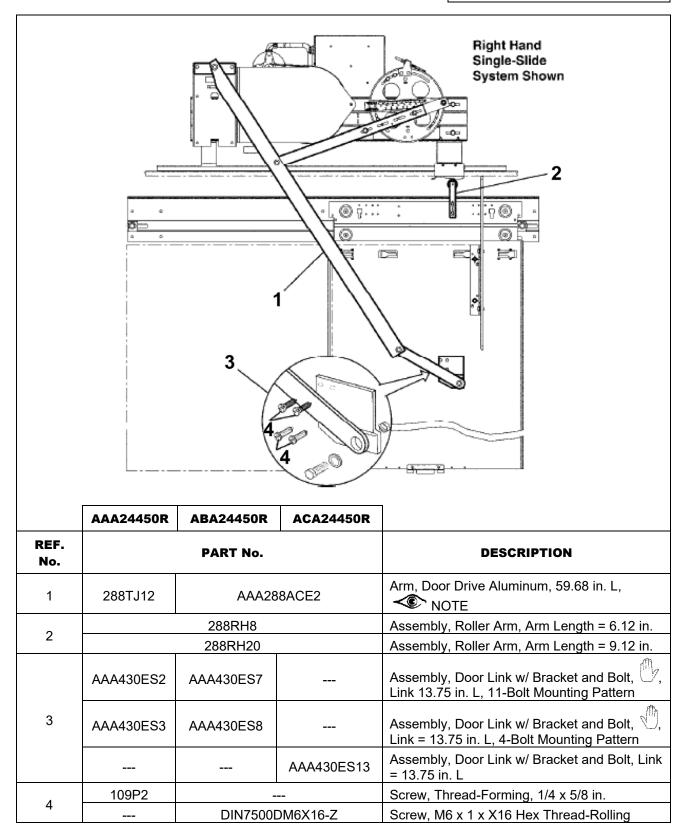
<sup>\*</sup> Bearing removal tool p/n COMMBMT-100

# Linkage Components, C/O Doors, High Cab

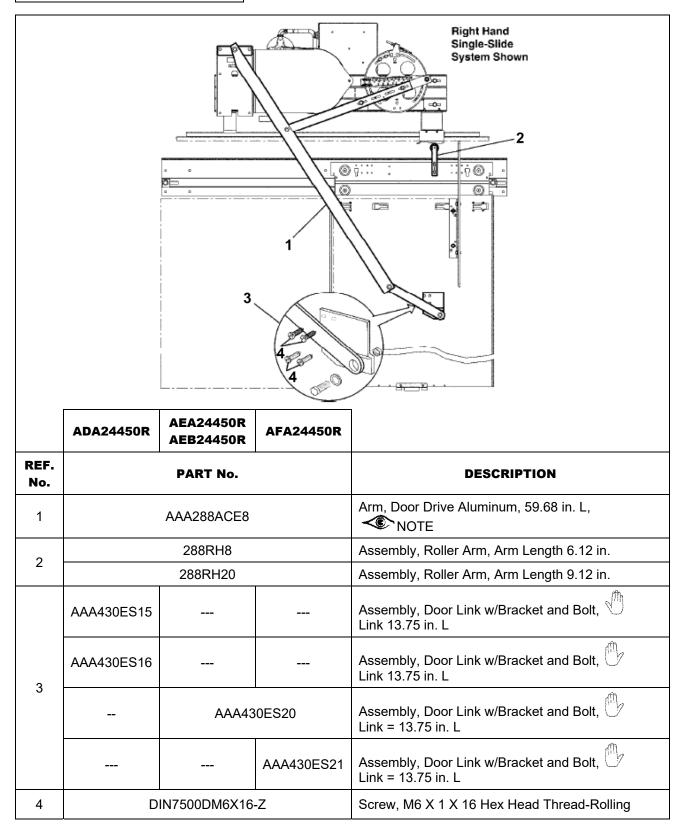


# **Linkage Components, S/S Doors**

### 23-AAA24470M

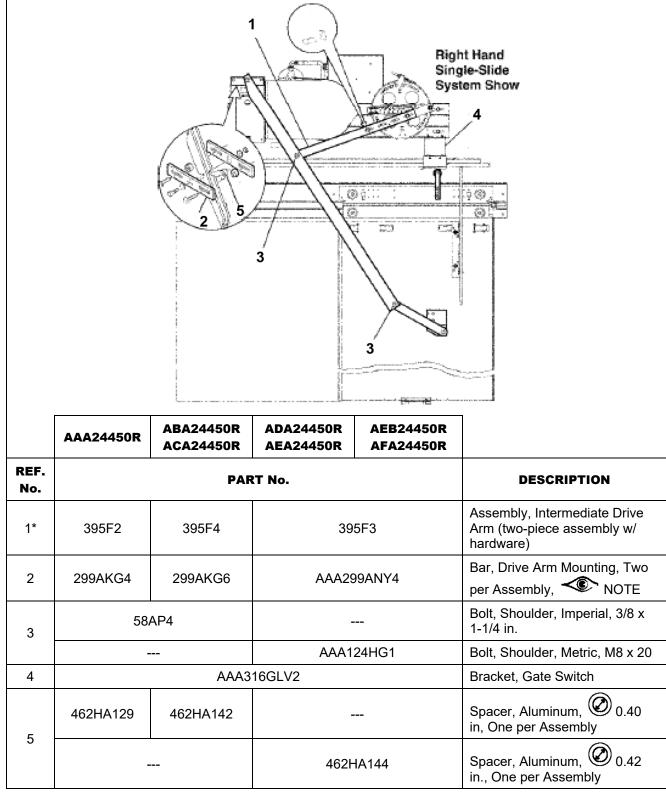


# **Linkage Components, S/S Doors**



# **Linkage Components, S/S**

### 23-AAA24470M

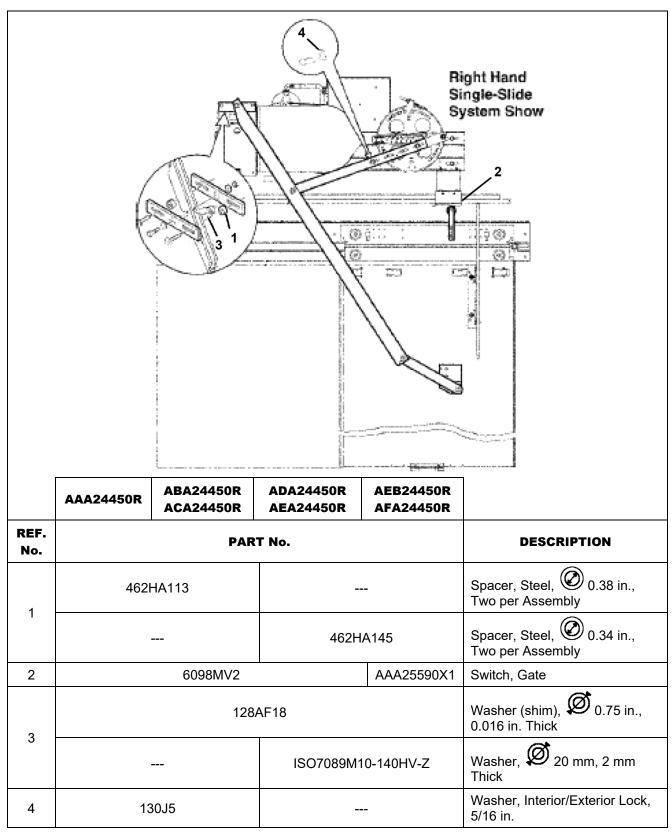


**NOTE:** Early and late vintage parts look identical, but they are not. A different bearing is used and the two are not interchangeable.

#### Continued on Next page

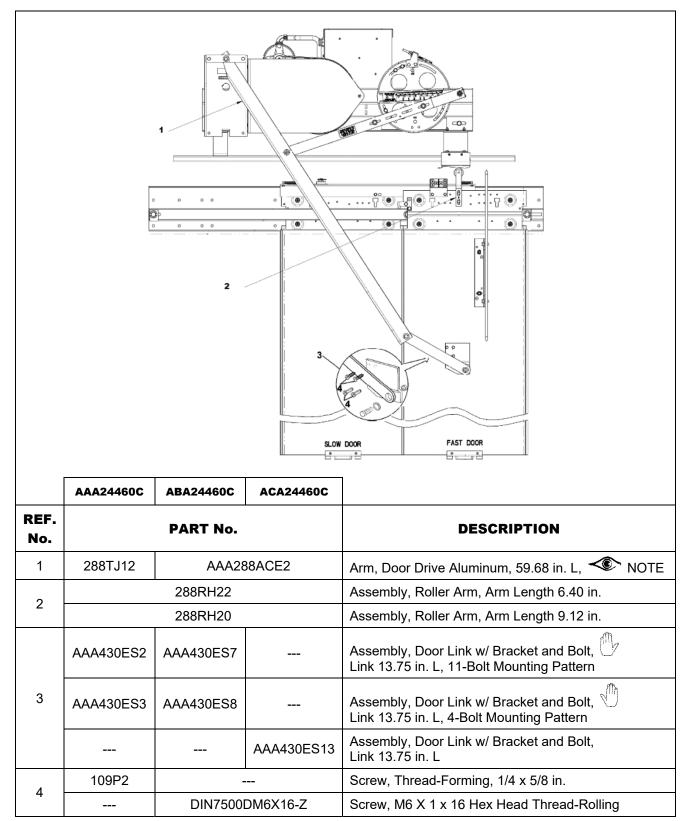
<sup>\*</sup> Bearing removal tool p/n COMMBMT-100

# **Linkage Components, S/S Doors**



# **Linkage Components, 2/S Doors**

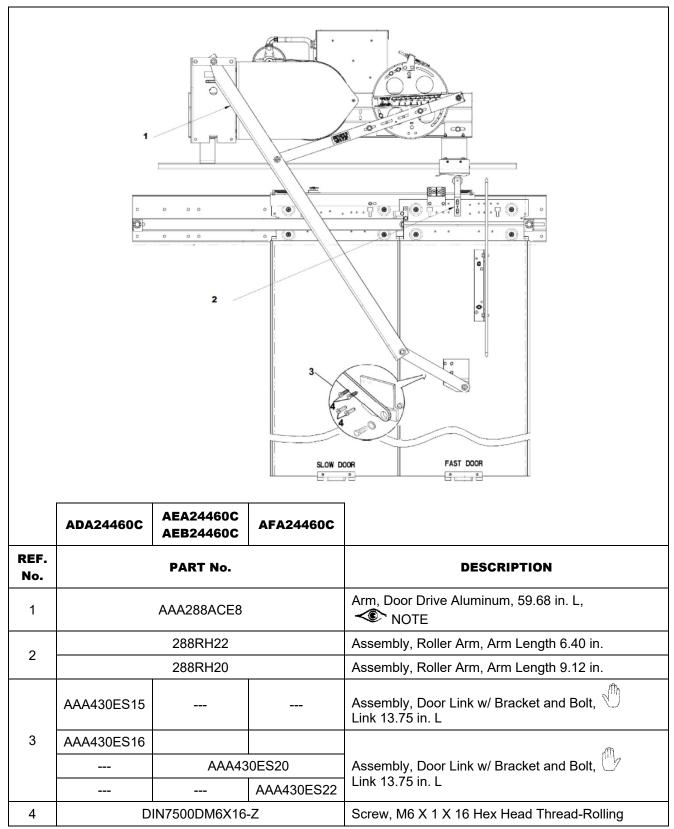
### 23-AAA24470M



**NOTE:** Early and late vintage parts look identical, but they are not. The distinguishing features are metric pivot bolts, mounting hardware, and holes.

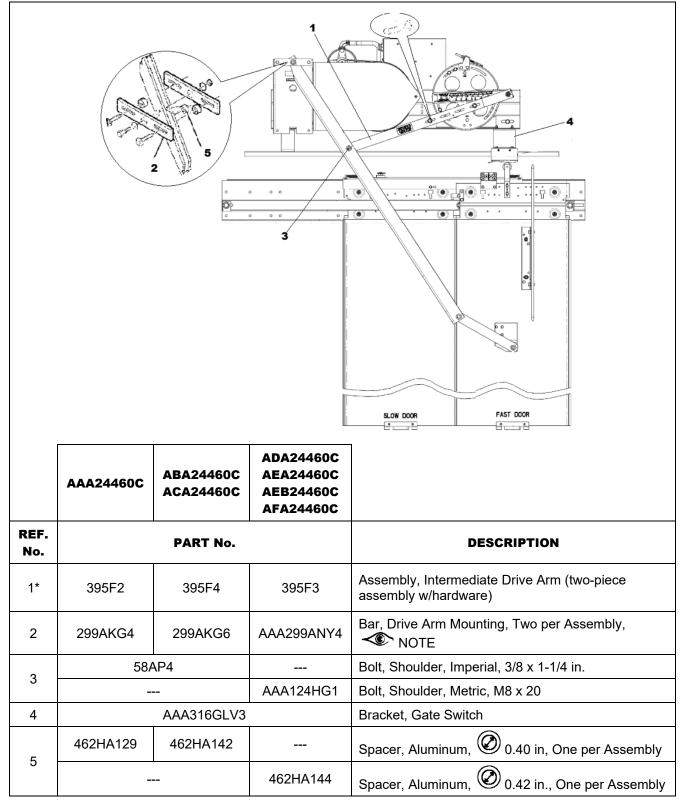
Continued on Next Page

### **Linkage Components, 2/S Doors**



### **Linkage Components, 2/S Doors**

### 23-AAA24470M



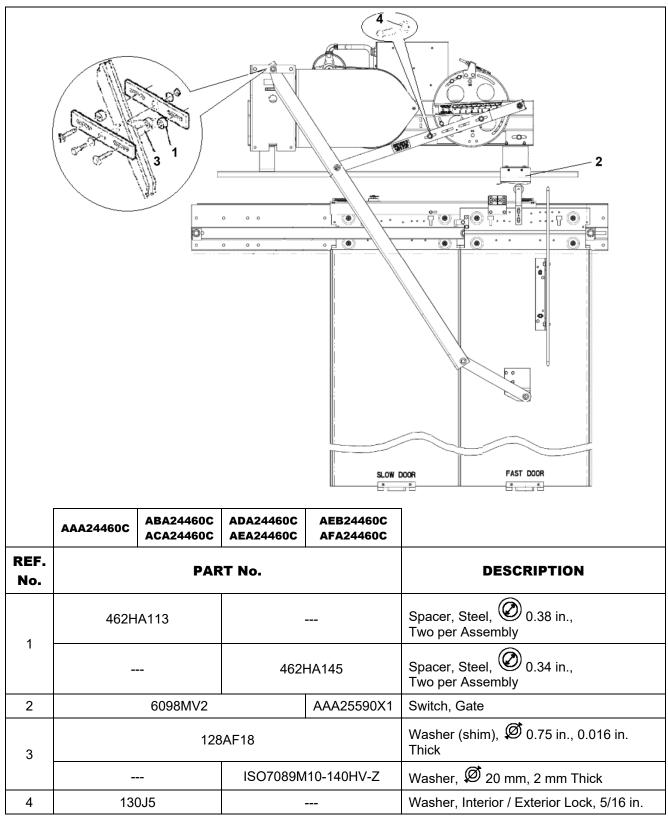
NOTE: Early and late vintage parts look identical, but they are not. A different bearing is used and the two are not interchangeable.

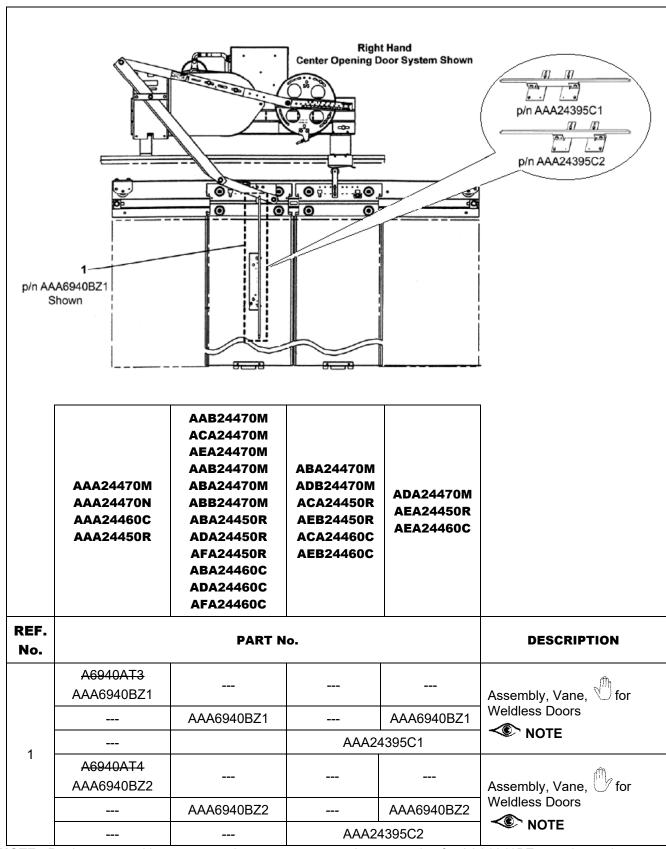
Continued on Next Page

**November 25, 2020** 

<sup>\*</sup> Bearing removal tool p/n COMMBMT-100

# **Linkage Components, 2/S Doors**





**NOTE:** Replace vane with same mounting type vane: one-piece mounting for AAA6940BZ\_\_ and two-piece mounting for AAA2439SC\_\_.