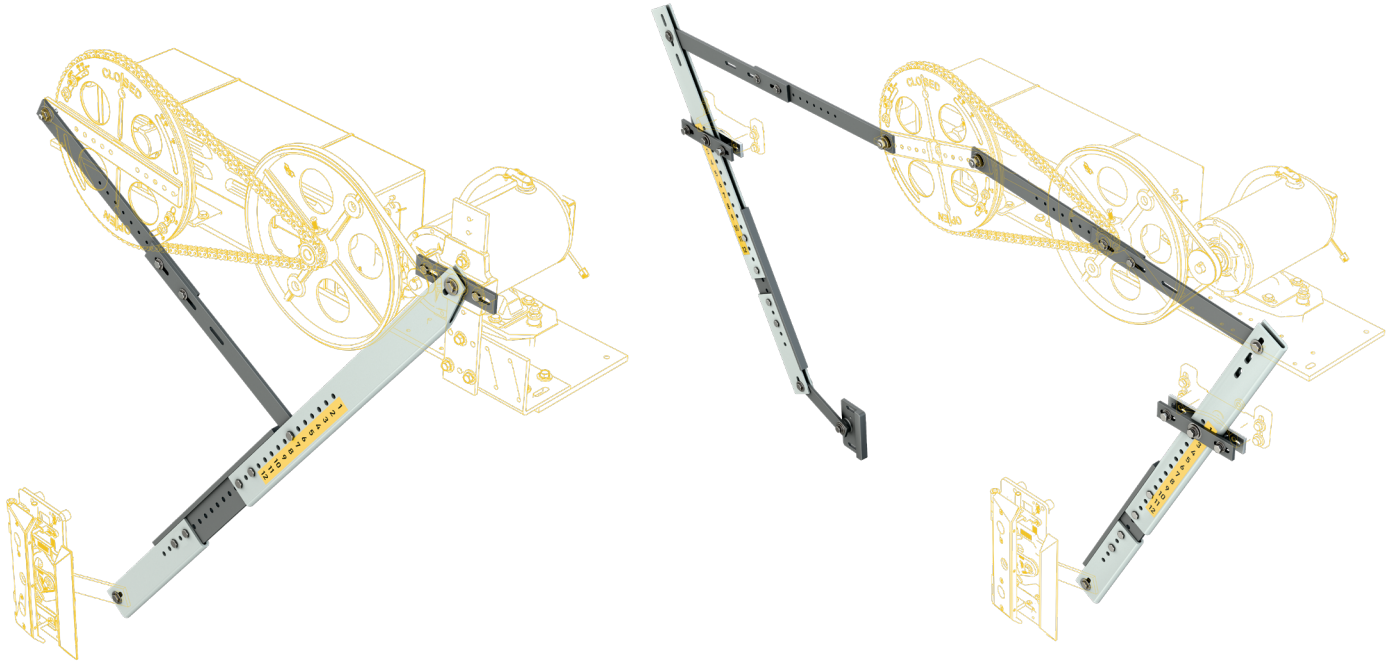


GAL UNIVERSAL DRIVE ARM

Designed for GAL "L" Drive Arm Operators



INSTALLATION MANUAL

DOC-0175N

REV A

08/2026



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1. INTRODUCTION

This kit is designed to replace GAL's traditional aluminum drive arm assembly which used a one-piece drive arm. The new kit includes an adjustable three-piece drive arm which covers multiple door openings under a single part number. Each kit is available in standard paint finish and a water-resistant version, where all ferrous material is yellow zinc dichromate plated.

SS / 2S SIDE SLIDE

	STD FINISH	WATER RESISTANT
TYPE 1	OP30-0001N	OP30-5001N
TYPE 2	OP30-0002N	OP30-5002N
TYPE 3	OP30-0003N	OP30-5003N

CENTER OPENING

	STD FINISH	WATER RESISTANT
TYPE 4	OP30-0004N	OP30-5004N
TYPE 5	OP30-0005N	OP30-5005N
TYPE 6	OP30-0006N	OP30-5006N

NOTE: These kits are designed for GAL Operators with "L" drive arm linkage, such as MOVFR, MODCTL, MOVFRW and MOXL. They are not meant to be used with other manufacturers' operators.

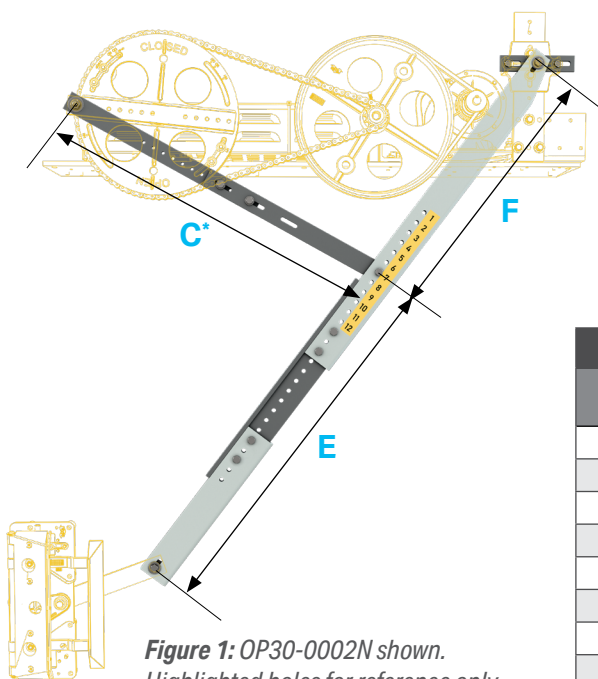
2. SCOPE AND COVERAGE

The GAL Universal Drive Arm is suitable only for the door configurations listed in the table below. For any other configurations, please contact GAL, as special engineering may be required.

SS / 2S UNIVERSAL	HEADER HEIGHT							
DOOR OPENING	13	17	21	25	29	33	37	41
30-34	TYPE 1	TYPE 1	TYPE 1	TYPE 2	TYPE 2	TYPE 3	TYPE 3	TYPE 3
35-39	TYPE 1	TYPE 1	TYPE 1	TYPE 2	TYPE 2	TYPE 3	TYPE 3	TYPE 3
40-44	TYPE 1	TYPE 1	TYPE 1	TYPE 2	TYPE 3	TYPE 3	TYPE 3	TYPE 3
45-48	TYPE 1	TYPE 2	TYPE 3	TYPE 3	TYPE 3	TYPE 3		

CENTER OPENING	HEADER HEIGHT							
DOOR OPENING	15	19	23	27	31	35	39	43
30-33	TYPE 4	TYPE 4	TYPE 4	TYPE 5	TYPE 5	TYPE 6	TYPE 6	TYPE 6
34-39	TYPE 4	TYPE 4	TYPE 5	TYPE 5	TYPE 5	TYPE 6	TYPE 6	TYPE 6
40-44	TYPE 4	TYPE 4	TYPE 5	TYPE 5	TYPE 6	TYPE 6	TYPE 6	TYPE 6
45-49	TYPE 4	TYPE 4	TYPE 5	TYPE 5	TYPE 6	TYPE 6	TYPE 6	TYPE 6

3. SINGLE/TWO SPEED SIDE SLIDE OPERATOR



STANDARD SS-2S OPERATOR DATA TABLE					
DOOR OPENING	HEADER HEIGHT	E	F	STANDARD FINISH	WATER RESISTANT
30-34	13	25	15	OP30-0001N	OP30-5001N
35-39	13	24	16		
40-44	13	26	20		
45-48	13	31	21		
30-34	17	29	15	OP30-0002N	OP30-5002N
35-39	17	28	16		
40-44	17	29	20		
45-48	17	34	21		
30-34	21	32	15	OP30-0001N	OP30-5001N
35-39	21	29	18		
40-44	21	30	21		
45-48	21	38	21		
30-34	25	36	15	OP30-0002N	OP30-5002N
35-39	25	33	18		
40-44	25	34	21		
45-48	25	41	21		
30-34	29	38	17	OP30-0002N	OP30-5002N
35-39	29	36	18		
40-44	29	37	21		
45-48	29	45	21		
30-34	33	42	17	OP30-0003N	OP30-5003N
35-39	33	40	18		
40-44	33	41	21		
45-48	33	48	21		
30-34	37	44	19		
35-39	37	43	18		
40-44	37	44	22		
30-34	41	48	19		
35-39	41	47	18		
40-44	41	47	22		

* See Appendix A, in page 20, or custom operator layout provided by Engineering Department.

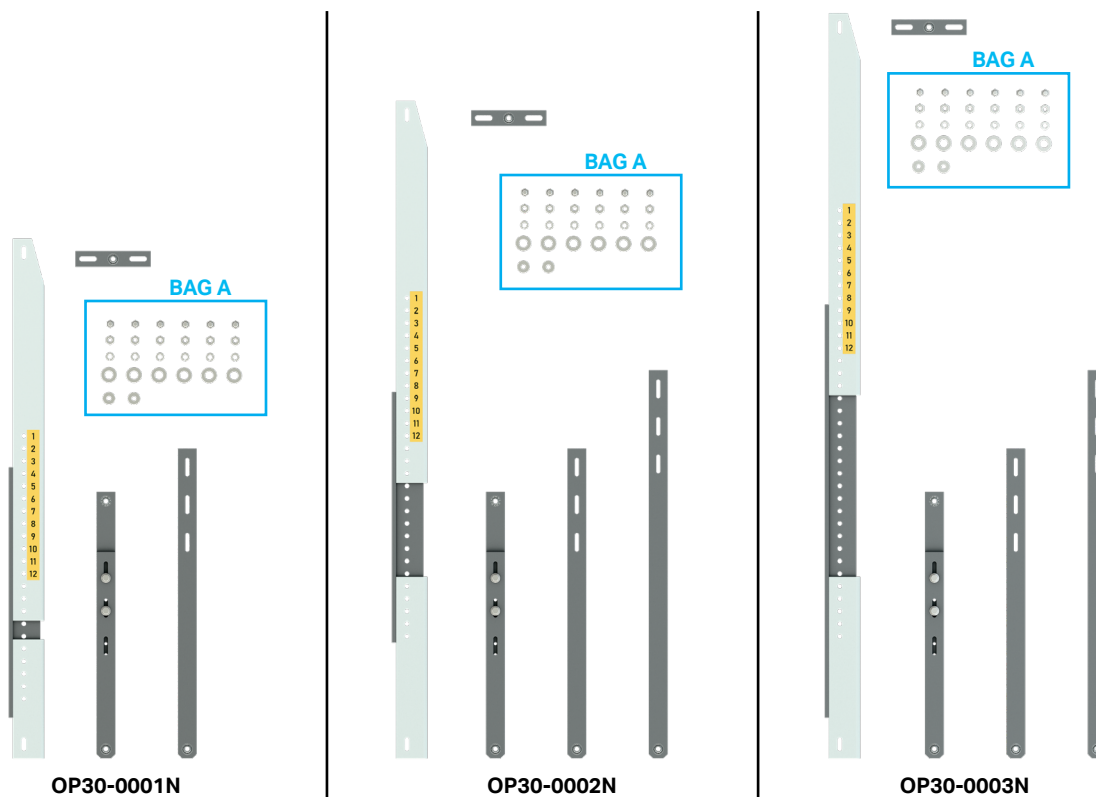


Figure 2: Contents of each kit. Standard paint finish shown.

3.1 SIDE SLIDE OPERATOR ALUMINUM ARM SET UP

Place the upper and lower aluminum arms on a flat surface and slide the connecting insert into the upper and lower arms, as shown in **Figure 3**. Use the data table in the previous page, or standard operator data table, to determine the **E** and **F** dimensions.

If job required special engineering, follow custom operator layout that was provided.

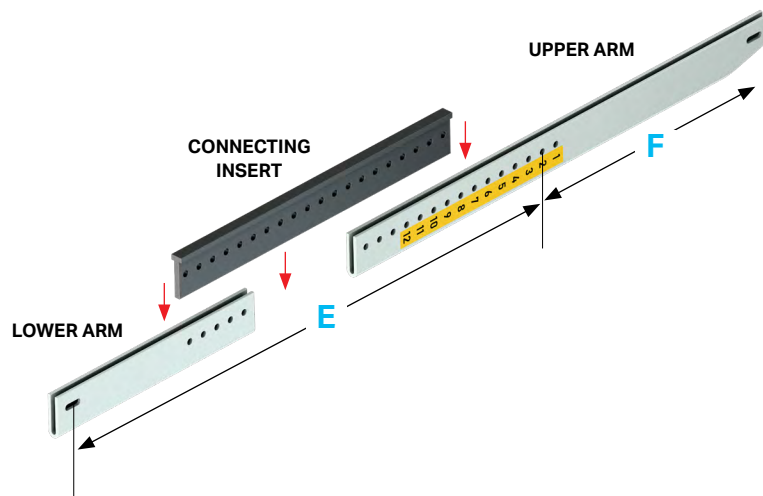


Figure 3: Lay upper and lower aluminum arms on a flat surface and arrange them so that E and F match drive arm data table.

Position the connecting insert in such a way that at least four holes between it and the upper and lower arms coincide, as shown in **Figure 4**.

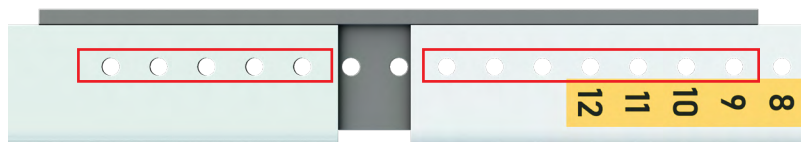


Figure 4: Four of the coinciding holes will be used to attach the connecting insert to the upper and lower arms.

Make sure the edges of the connecting insert are at least 1 1/2" from the operator connecting insert and clutch link holes and the upper and lower arms, respectively, as shown in **Figures 5 and 6**.

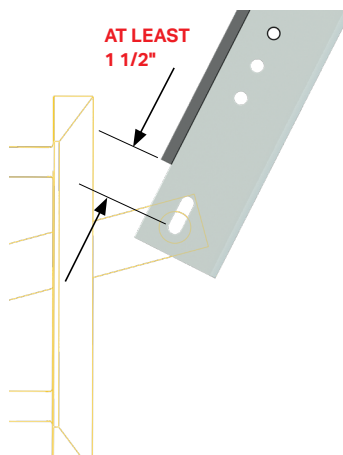


Figure 5: Minimum distance between connecting insert and clutch/door link.

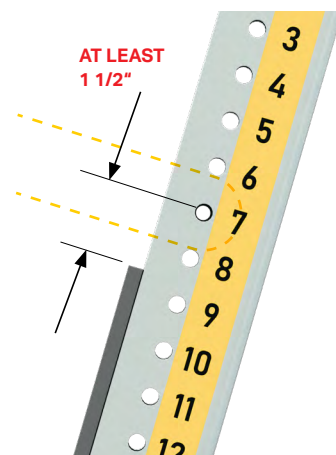


Figure 6: Minimum distance between connecting insert and operator connecting link.

Use two sets of 3/8-16 bolts, spring washers and nuts, included in Bag A, to secure connecting insert to each arm, as shown in **Figure 7**.

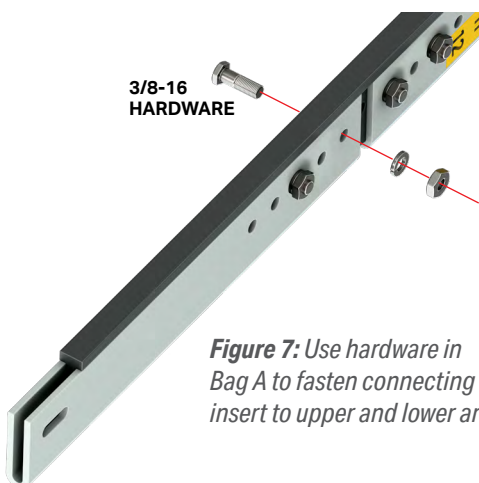


Figure 7: Use hardware in Bag A to fasten connecting insert to upper and lower arms.

3.2 SIDE SLIDE OPERATOR CONNECTING LINK ASSEMBLY SET UP

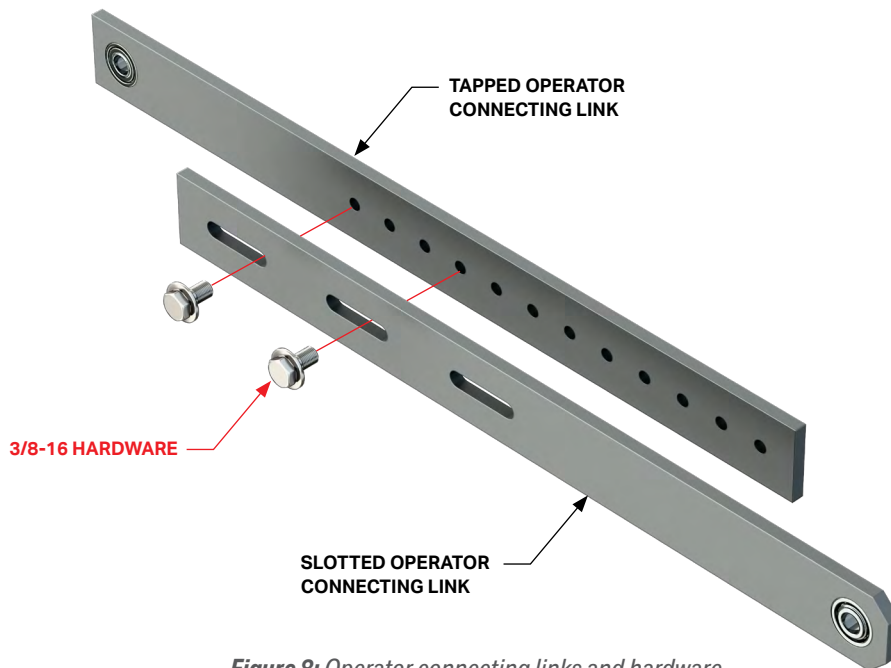


Figure 8: Operator connecting links and hardware.

Each kit includes one tapped operator connecting link, and optional slotted operator connecting links, which are paired up based on the overall length of the operator connecting link assembly, **C**.

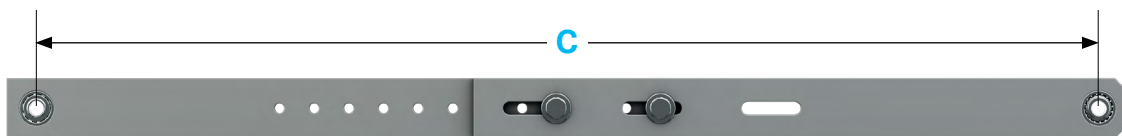


Figure 9: "C" is the distance between the bearings on each end of the operator link assembly.

Please refer to **Appendix A**, in page 20 of this document, or custom operator layout that was provided by the Engineering Department, to identify correct **C**.

Identify each slotted operator connecting link. Refer to **Figure 10**.

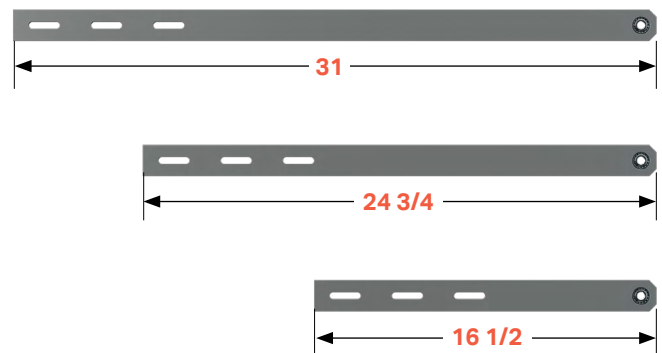


Figure 10: Overall length of each slotted operator connecting link.

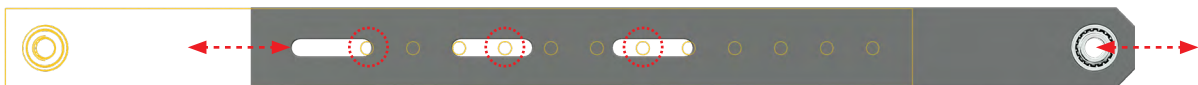


Figure 11: Make sure two slot coincide with two tapped holes.

Lay tapped connecting operator link on a flat surface and place the slotted operator connecting link on top. Adjust links, as shown in **Figure 11**, to match correct "C" stated by data table/custom operator layout.

Use two of the tapped holes behind two different slots to fasten both links together, as shown in **Figure 12**.



Figure 12: Side Slide Operator connecting link assembly fully assembled.

3.3 SIDE SLIDE OPERATOR DRIVE ARM ASSEMBLY SET UP

Fasten the drive arm pivot plate to the upper arm with the 3/8-16 hardware provided and use a 3/8" ID x 1" OD washer, included in Bag A, between head of the bolt and slot on the upper arm, as shown in **Figure 13**.

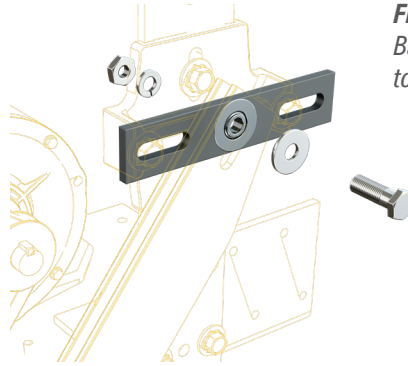


Figure 13: Use hardware in Bag A to fasten upper arm to pivot plate.

Fasten upper arm to the **slotted** operator connecting link, as shown in **Figure 14**. Mounting location is **F** from the operator data table or custom operator layout.

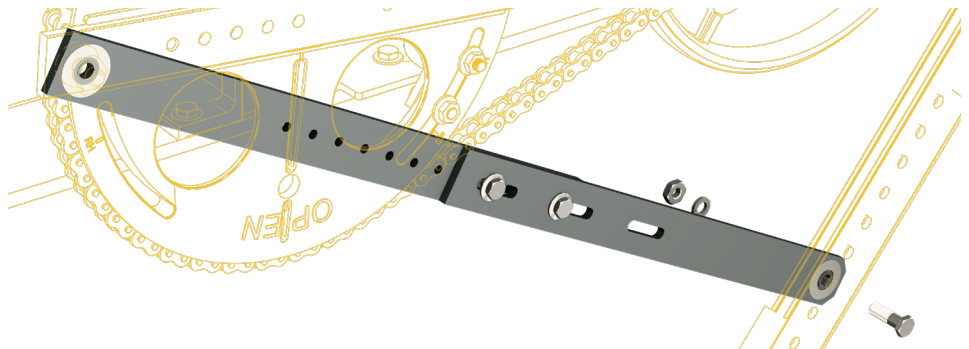


Figure 14: Use hardware in Bag A to fasten upper arm to operator connecting link.

Fasten the clutch/door link to the lower arm with the 3/8-16 hardware provided and place a 3/8" ID x 1" OD washer, included in Bag A, between head of the bolt and slot on the lower arm, as shown in **Figure 15**.

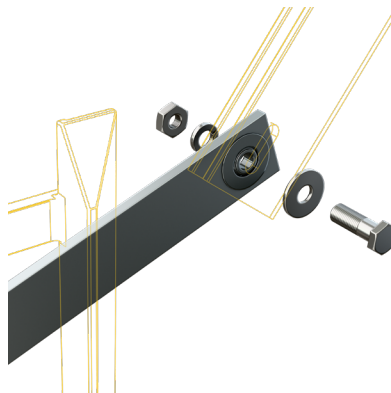


Figure 15: Use hardware in Bag A to fasten lower arm to clutch/door link.

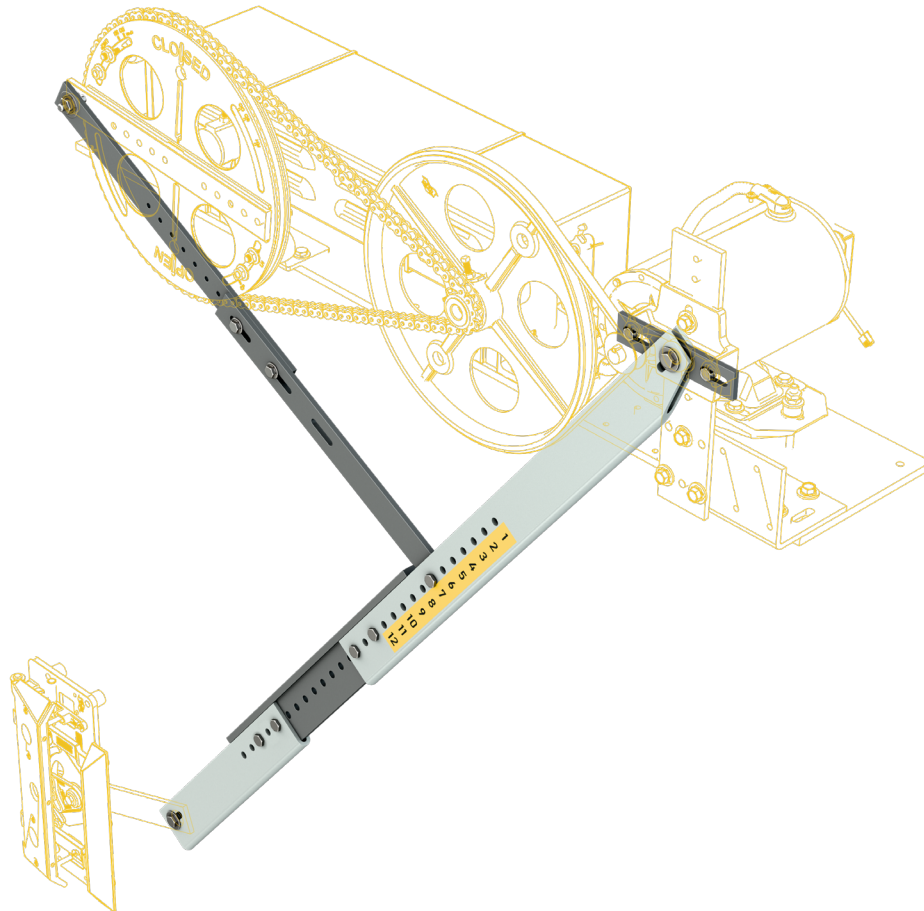
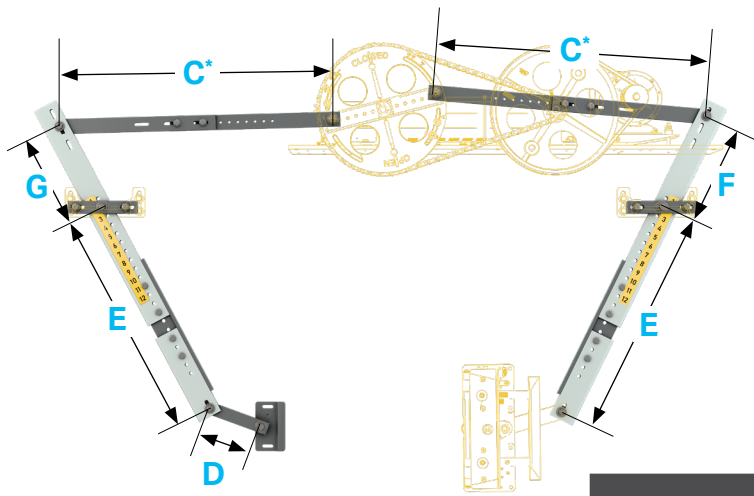


Figure 16: OP30-0002N fully assembled.

4. SINGLE SPEED CENTER PARTING OPERATOR



* See Appendix B, in page 21, or custom operator layout provided by Engineering Department.

Figure 17: CP drive arm. Highlighted holes for reference only.

STANDARD CP OPERATOR DATA TABLE							
DOOR OPENING	HEADER HEIGHT	E	F	G	D	STANDARD FINISH	WATER RESISTANT
30-33	15	19 3/4	12	11 1/2	5	OP30-0004N	OP30-5004N
34-39	15	21	12	11 1/2	6		
40-44	15	25 1/2	12	11 1/2	6		
45-49	15	25 1/2	12	11 1/2	6		
30-33	19	23	14	13	5		
34-39	19	25	12	11	6		
40-44	19	29	12	11	6		
45-49	19	28	14	13	6		
30-33	23	25	15	14	5	OP30-0005N	OP30-5005N
34-39	23	28 1/2	14	13	6		
40-44	23	31 1/2	14	13	6		
45-49	23	30	15	14	6		
30-33	27	29	15	14	5		
34-39	27	30	15	14	6		
40-44	27	34	15	14	6		
45-49	27	33	16	15	6		
30-33	31	30	18	17	5	OP30-0006N	OP30-5006N
34-39	31	33	17	16	6		
40-44	31	35 1/2	18	16 1/2	6		
45-49	31	34	18	17	6		
30-33	35	34	18	16	5		
34-39	35	36	17	16	6		
40-44	35	38	19	17 1/2	6		
45-49	35	37	20	19	6		
30-33	39	36	20	18	5		
34-39	39	38	20	19	6		
40-44	39	40	22	19 3/4	6		
45-49	39	40	20	19	6		
30-33	43	39	21	19	5		
34-39	43	42	18	17	6		
40-44	43	43	22	20 1/2	6		
45-49	43	44	20	19	6		

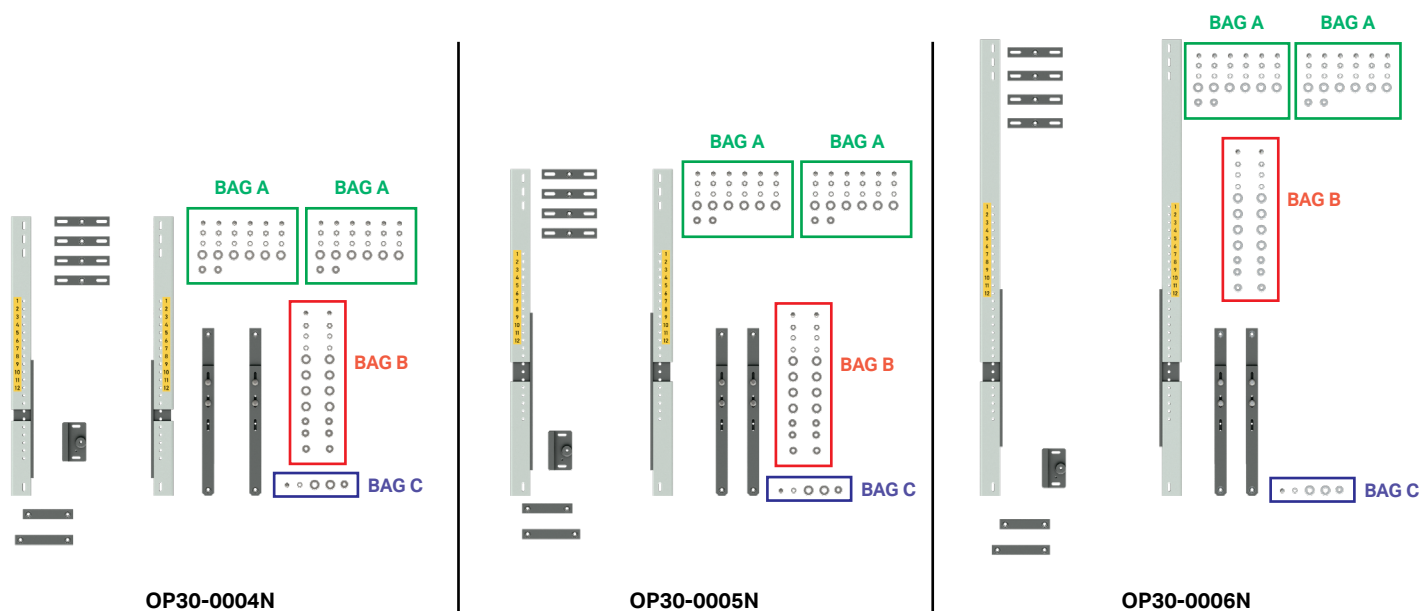


Figure 18: Contents of each Center Parting kit. Standard finish paint shown.

4.1 CENTER PARTING OPERATOR ALUMINUM ARM SET UP

Place the upper and lower aluminum arms on a flat surface and slide the connecting insert into the upper and lower arms, as shown in **Figure 19**. Use the data table in the previous page, or standard operator data table, to determine the **E**, **F** and **G** dimensions.

If job required special engineering, follow custom operator layout that was provided.

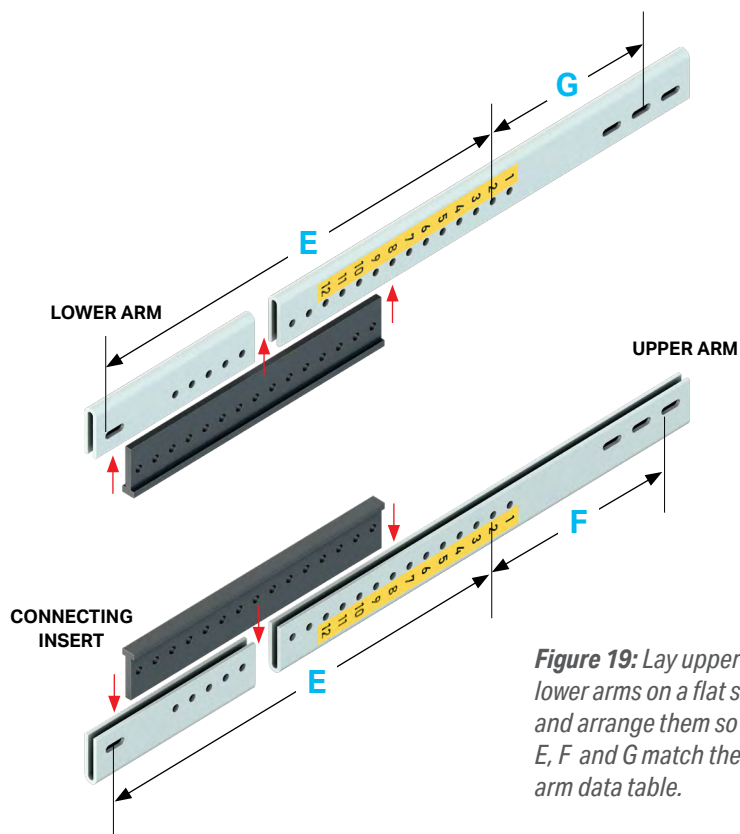


Figure 19: Lay upper and lower arms on a flat surface and arrange them so that E, F and G match the drive arm data table.

Position the connecting insert in such a way that at least four holes between it and the upper and lower arms coincide, as shown in **Figure 20**.

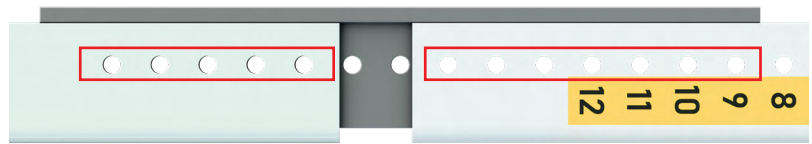


Figure 20: Four of the coinciding holes will be used to attach the connecting insert to the upper and lower.

Make sure the edges of the connecting insert are at least 1 1/2" from the arm pivot bracket and clutch/door link holes and the upper and lower arms, respectively, as shown in **Figures 21** and **22**.

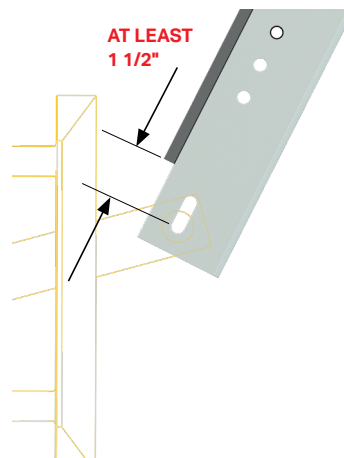


Figure 21: Minimum distance between the connecting insert and clutch/door link.

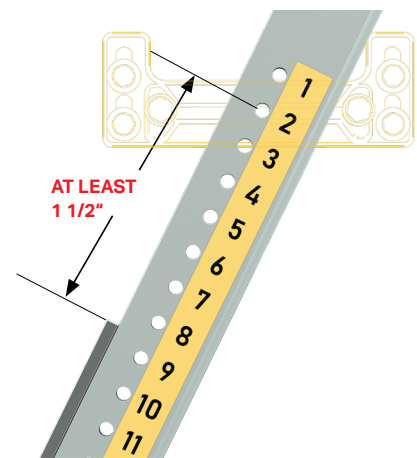


Figure 22: Minimum distance between the connecting insert and drive arm pivot bracket.

Use two sets of 3/8-16 bolts, spring washers and nuts, included in Bag A, to secure connecting insert to each arm, as shown in **Figure 23**.

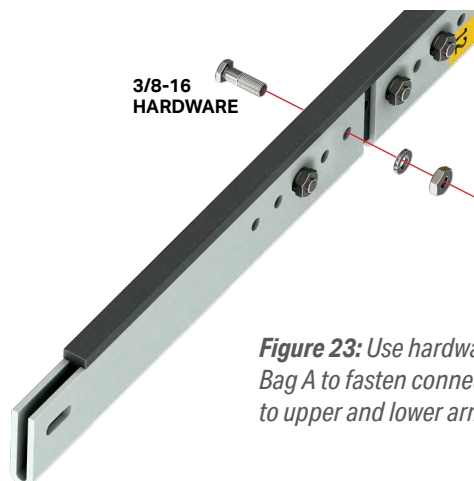


Figure 23: Use hardware in Bag A to fasten connecting insert to upper and lower arms.

4.2 CENTER PARTING OPERATOR CONNECTING LINK ASSEMBLY SET UP

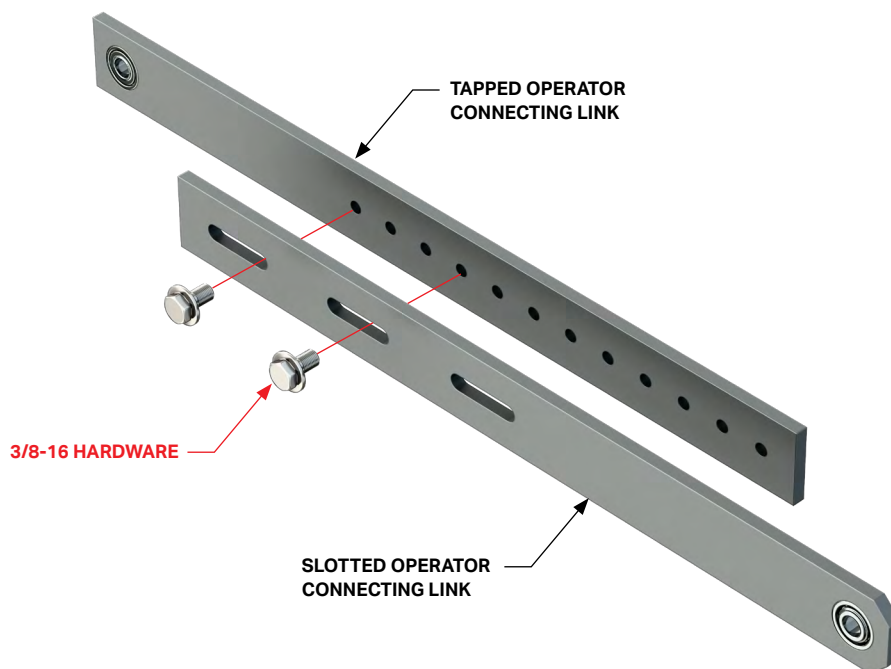


Figure 24: Operator connecting links and hardware.

Each kit includes two tapped operator connecting links and two slotted operator connecting links, which are adjusted based on the overall length of the operator connecting link assembly, **C**.

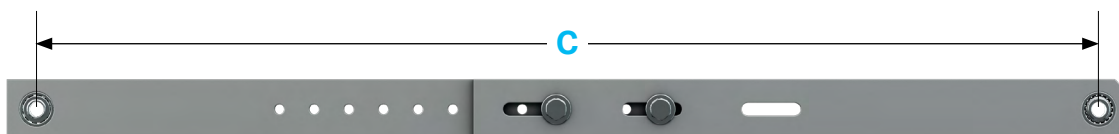


Figure 25: "C" is the distance between the bearings on each end of the operator link assembly.

Please refer to **Appendix B**, in page 21 of this document, or custom operator layout that was provided by the Engineering Department, to identify correct **C**.

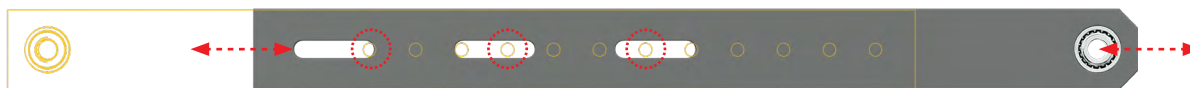


Figure 26: Overall length of each slotted operator connecting link.

Lay tapped connecting operator link on a flat surface and place the slotted operator connecting link on top. Adjust link, as shown in **Figure 26**, to match "**C**" stated by data table/custom operator layout.

Use two of the tapped holes behind two different slots to fasten both links together, as shown in **Figure 24**. Repeat this process for the operator connecting link assembly on the other side.

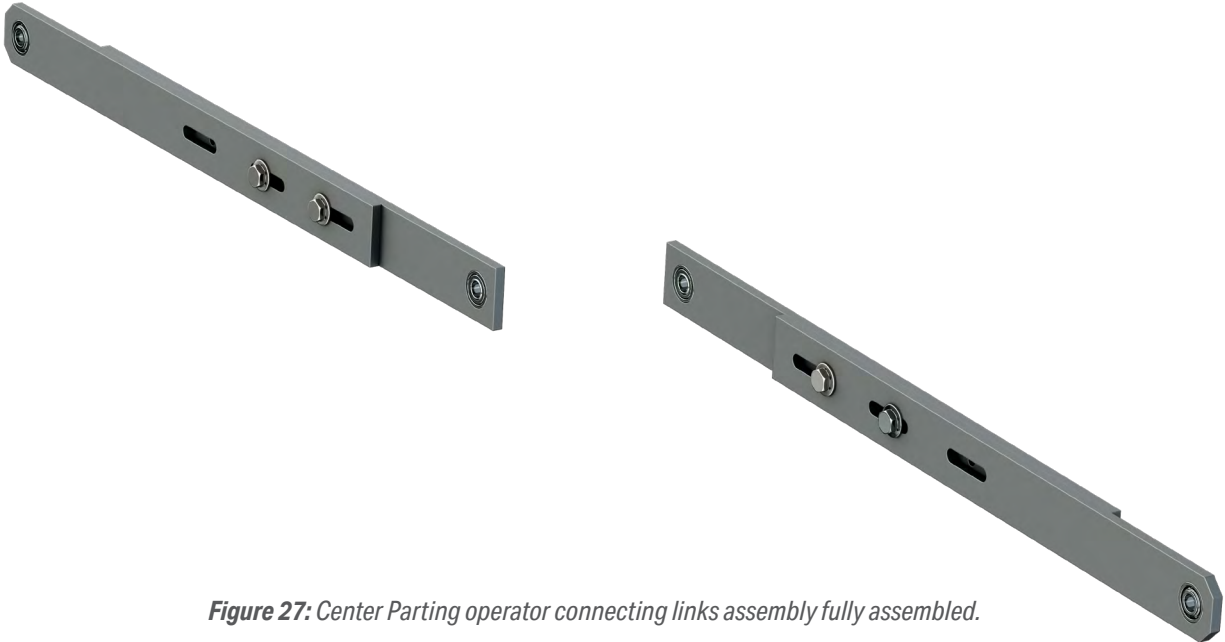


Figure 27: Center Parting operator connecting links assembly fully assembled.

4.3 CENTER PARTING OPERATOR DRIVE ARM ASSEMBLY SET UP

Fasten upper arm to the slotted operator connecting link, as shown in **Figure 28**, and use a 3/8" ID x 1" OD, included in Bag A, washer between head of the bolt and slot on the upper arm. Mounting locations are **F** and **G** from the operator data table or custom operator layout.

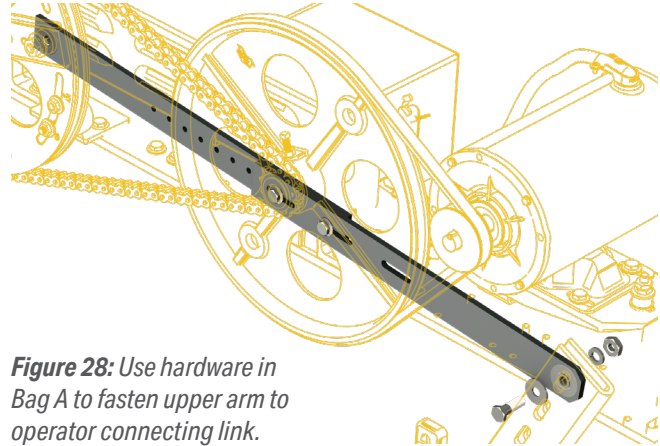


Figure 28: Use hardware in Bag A to fasten upper arm to operator connecting link.

Fasten drive arm plates to upper arm with the hardware provided, as shown in **Figure 29**. Make sure the drive arm spacer is inside the upper arm and held in place by the 3/8-16x2 bolt, included in Bag B. Mounting locations are **F** and **G** from the operator data table or custom operator layout.

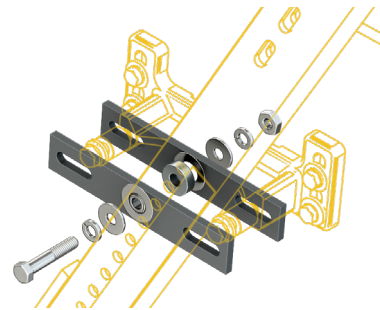


Figure 29: Use hardware in Bag B to fasten pivot plates to upper arm.

Fasten the clutch/door link to the lower arm using the 3/8-16 hardware and place a 3/8" ID x 1" OD washer, included in Bag A, between head of the bolt and slot on the lower arm, as shown in **Figure 30**. Follow this step for the clutch, **not included in this kit**, and the door link and bracket assembly.

Repeat the assembly process for the arm on the other side.

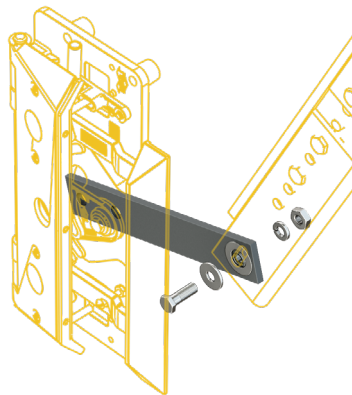


Figure 30: Use hardware in Bag A to fasten clutch/door link to lower arm.

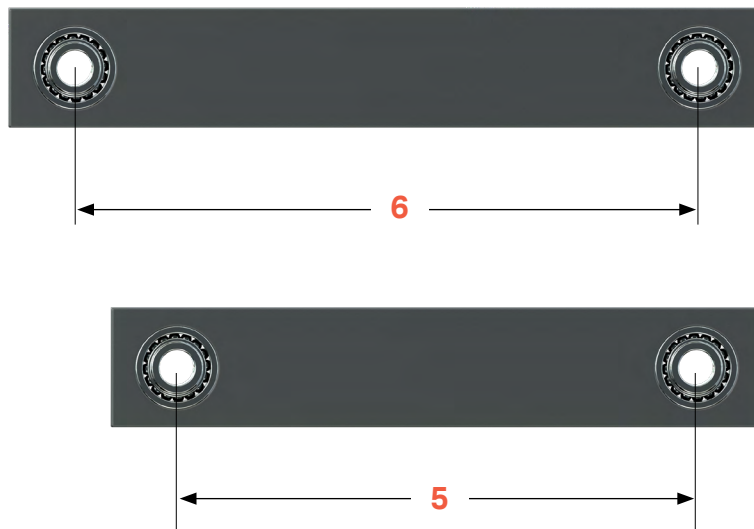


Figure 31: Refer to operator data table or custom print for correct door link length, D.

Each center parting kit comes with two door links, 5" and 6", as shown in **Figure 31**, and one door bracket. Please refer to the operator data table or custom operator layout to pick the correct link, **D**.

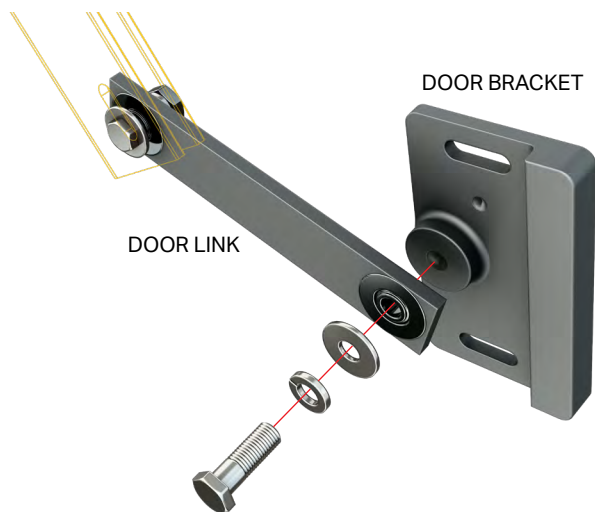


Figure 32: Door link and door bracket assembly.

Fasten door link to door bracket with hardware provided in Bag C, as shown in **Figure 32**.

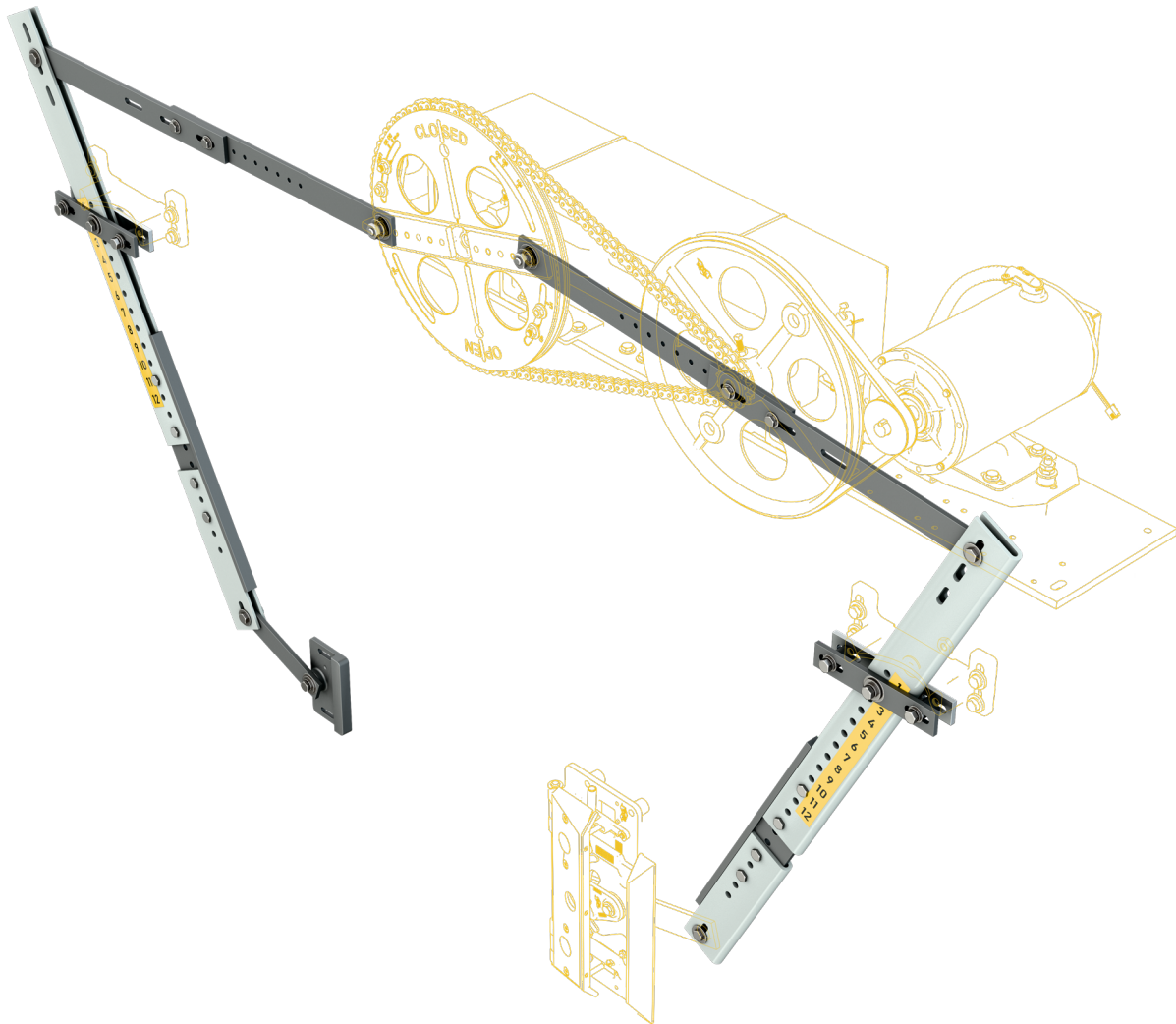


Figure 33: OP30-0004N fully assembled.

APPENDIX A

SINGLE AND TWO SPEED SIDE SLIDE CONNECTING LINK (C)

DOOR OPENING	HEADER HEIGHT							
	13"	17"	21"	25"	29"	33"	37"	41"
30"	23 7/8	23 3/4	24 1/4	24 1/8	24 7/8	24 7/8	25 5/8	25 1/2
31"	24 1/16	24	24 3/8	24 1/4	25	25	25 3/4	25 5/8
32"	24 1/4	24 3/4	25 1/8	25 1/8	25 3/4	25 3/4	26 1/2	26 1/2
33"	25	24 7/8	25 1/4	25 1/4	25 7/8	25 7/8	26 5/8	26 5/8
34"	25 3/16	25 1/8	25 3/8	25 3/8	26	26	26 3/4	26 3/4
35"	28 5/8	28 5/8	29 1/2	29 5/8	29 7/8	30	30 1/4	30 3/8
36"	28 13/16	28 3/4	29 5/8	29 3/4	30	30 1/8	30 3/8	30 1/2
37"	29	29	29 7/8	29 7/8	30 1/8	30 1/4	30 1/2	30 5/8
38"	29 3/16	29 1/8	30	30	30 1/4	30 3/8	30 5/8	30 3/4
39"	29 3/8	29 1/4	30 1/8	30 1/8	30 3/8	30 1/2	30 3/4	30 3/4
40"	34	34 1/4	35 1/2	35 1/2	35 3/4	35 7/8	36 1/8	36 5/8
41"	34 3/16	34 3/8	35 5/8	35 5/8	35 7/8	36	36 1/4	36 3/4
42"	34 3/8	34 1/2	35 3/4	35 3/4	36	36 1/8	36 3/8	36 7/8
43"	34 9/16	34 5/8	35 7/8	35 7/8	36 1/8	36 1/4	36 1/2	37
44"	34 3/4	34 7/8	36	36 1/8	36 1/4	36 3/8	36 5/8	37 1/8
45"	33 3/4	33 7/8	33 3/4	34 1/4	34 1/8	34 1/2		
46"	33 15/16	34	33 15/16	34 3/8	34 1/4	34 5/8		
47"	34 1/8	34 1/4	34 1/8	34 1/2	34 3/8	34 3/4		
48"	34 15/16	34 3/8	34 5/16	34 5/8	34 1/2	34 7/8		

APPENDIX B

SINGLE SPEED CENTER OPENING CONNECTING LINK (C)

DOOR OPENING	HEADER HEIGHT							
	15"	19"	23"	27"	31"	35"	39"	43"
30"	23 7/8	23 3/4	24 1/4	24 1/8	24 7/8	24 7/8	25 5/8	25 1/2
31"	24 1/16	24	24 3/8	24 1/4	25	25	25 3/4	25 5/8
32"	24 1/4	24 3/4	25 1/8	25 1/8	25 3/4	25 3/4	26 1/2	26 1/2
33"	25	24 7/8	25 1/4	25 1/4	25 7/8	25 7/8	26 5/8	26 5/8
34"	25 3/16	25 1/8	25 3/8	25 3/8	26	26	26 3/4	26 3/4
35"	28 5/8	28 5/8	29 1/2	29 5/8	29 7/8	30	30 1/4	30 3/8
36"	28 13/16	28 3/4	29 5/8	29 3/4	30	30 1/8	30 3/8	30 1/2
37"	29	29	29 7/8	29 7/8	30 1/8	30 1/4	30 1/2	30 5/8
38"	29 3/16	29 1/8	30	30	30 1/4	30 3/8	30 5/8	30 3/4
39"	29 3/8	29 1/4	30 1/8	30 1/8	30 3/8	30 1/2	30 3/4	30 3/4
40"	34	34 1/4	35 1/2	35 1/2	35 3/4	35 7/8	36 1/8	36 5/8
41"	34 3/16	34 3/8	35 5/8	35 5/8	35 7/8	36	36 1/4	36 3/4
42"	34 3/8	34 1/2	35 3/4	35 3/4	36	36 1/8	36 3/8	36 7/8
43"	34 9/16	34 5/8	35 7/8	35 7/8	36 1/8	36 1/4	36 1/2	37
44"	34 3/4	34 7/8	36	36 1/8	36 1/4	36 3/8	36 5/8	37 1/8
45"	33 3/4	33 7/8	33 3/4	34 1/4	34 1/8	34 1/2	36 5/8	37 1/8
46"	33 15/16	34	33 15/16	34 3/8	34 1/4	34 5/8	36 5/8	37 1/8
47"	34 1/8	34 1/4	34 1/8	34 1/2	34 3/8	34 3/4	36 5/8	37 1/8
48"	34 15/16	34 3/8	34 5/16	34 5/8	34 1/2	34 7/8	36 5/8	37 1/8
49"	34 15/16	34 3/8	34 5/16	34 5/8	34 1/2	34 7/8	36 5/8	37 1/8

NOTES

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