



**VESTIL MANUFACTURING COMPANY**

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**COL-AL (ALUMINUM) CROSS OVER LADDERS**



\*Model COL-AL-6-56-44 shown

**Receiving Instructions**

After delivery, remove the packaging from the product. Inspect the product closely to determine whether it sustained damage during transport. If damage is discovered, record a complete description of it on the bill of lading. If the product is undamaged, discard the packaging.

**NOTE:** The end-user is solely responsible for confirming that product design, use, and maintenance comply with laws, regulations, codes, and mandatory standards applied where the product is used.

**Technical Service & Replacement Parts**

For answers to questions not addressed in these instructions and to order replacement parts, labels, and accessories, call our Technical Service and Parts Department at (260) 665-7586. The department can also be contacted online at <https://www.vestil.com/page-parts-request.php>.

**Electronic copies of Instruction Manuals**

Additional copies of this instruction manual may be downloaded from <https://www.vestil.com/page-manuals.php>

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## SIGNAL WORDS

This manual uses SIGNAL WORDS to indicate the likelihood of personal injuries, as well as the probable seriousness of those injuries, if the product is misused in the ways described. Other signal words call attention to uses of the product likely cause property damage. The following are signal words used in this manual and their definitions.

### DANGER

Identifies a hazardous situation which, if not avoided, **WILL** result in **DEATH** or **SERIOUS INJURY**. Use of this signal word is limited to the **most extreme situations**.

### WARNING

Identifies a hazardous situation which, if not avoided, **COULD** result in **DEATH** or **SERIOUS INJURY**.

### CAUTION

Indicates a hazardous situation which, if not avoided, **COULD** result in **MINOR** or **MODERATE** injury.

### NOTICE

Identifies practices likely to result in product/property damage, such as operation that might damage the product.

## SAFETY INSTRUCTIONS

Vestil strives to identify foreseeable hazards associated with the use of its products. However, no manual can address every conceivable risk. Minimize the likelihood of injury by observing the hazards identified below and by inspecting and maintaining the product as instructed in [INSPECTIONS AND MAINTENANCE](#) on p. 22.

### WARNING

Risks of serious personal injuries.

• **Read and understand this entire manual before installing, assembling, using or servicing this crossover.**

Keep this manual in a location known to persons who use the crossover. Read the manual whenever necessary to refresh your understanding of proper use, inspection, and maintenance procedures.

• DO NOT exceed the 500 pounds (227kg) capacity. The total weight applied to the crossover (weight of the user plus tools, etc.) must not be greater than 500 pounds.

• DO NOT install the crossover on uneven or unstable surfaces. ONLY install the crossover on level, even surfaces. Install the crossover in a location where users cannot contact overhead objects. In particular, there must be no possibility of users contacting electrical wiring.

• DO NOT use the crossover if you tire quickly or easily, or if you have experienced fainting spells. DO NOT use the crossover if you are under the influence of alcohol, medication, or other substances that affect your balance or coordination. Only use the crossover if you are in good health.

• Make sure that you will not contact overhead objects with your body during use.

• Inspect the truck as directed in [INSPECTIONS AND MAINTENANCE](#) on page 22. DO NOT use the device unless it is in *satisfactory condition*. See [RECORD OF SATISFACTORY CONDITION](#) on p. 22.

• Always unload the crossover before leaving it unattended.

• Remove foreign matter, like mud, oil, and grease, from your shoes before walking on the crossover.

• DO NOT increase the height of the platform, or a step, by standing on other objects placed on the crossover. For instance, do not use a step stool on the crossover platform.

• Children must not play on the crossover. Apply measures to prevent access to the crossover by children.

• Inspect the crossover as described in [INSPECTIONS AND MAINTENANCE](#). DO NOT use the crossover unless it is in normal condition. ONLY use manufacturer-approved replacement parts if repairs are necessary.

• DO NOT use the crossover if any of the feet (at the base of each stairway) are damaged, unstable, corroded, etc. The crossover should be rigidly fastened to the floor. It should not wobble to any degree.

• DO NOT store items on the crossover. Only use this product as it is intended, i.e. as a pedestrian walkway.

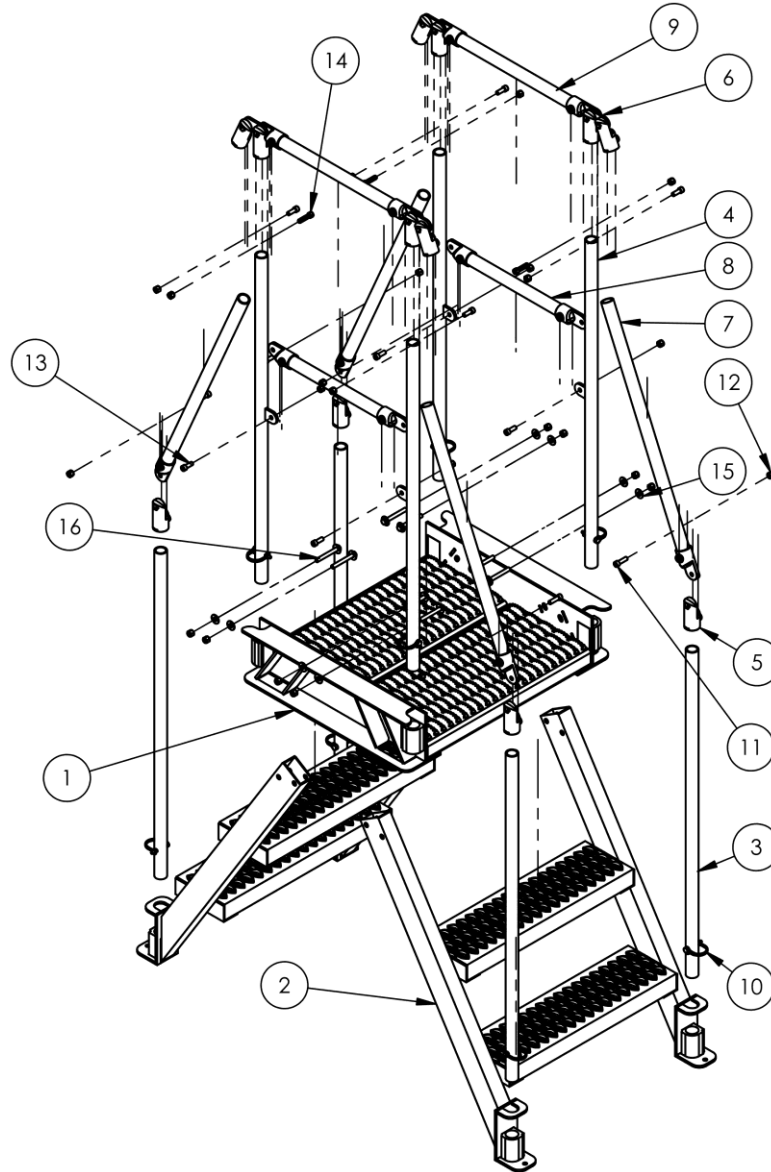
• DO NOT lean or reach over the sides of the crossover. Keep your center of gravity (belly button) between the handrails.

• DO NOT use this product UNLESS every label shown in the [LABELING DIAGRAM](#) on p. 23 is in place, undamaged, and easily readable.

• DO NOT modify the crossover in any way without express, written approval from Vestil. Unapproved modifications automatically void the [LIMITED WARRANTY](#) on p. 24 and might make the product unsafe to use.

# Exploded View & Bill of Materials: COL-AL-3-26-14

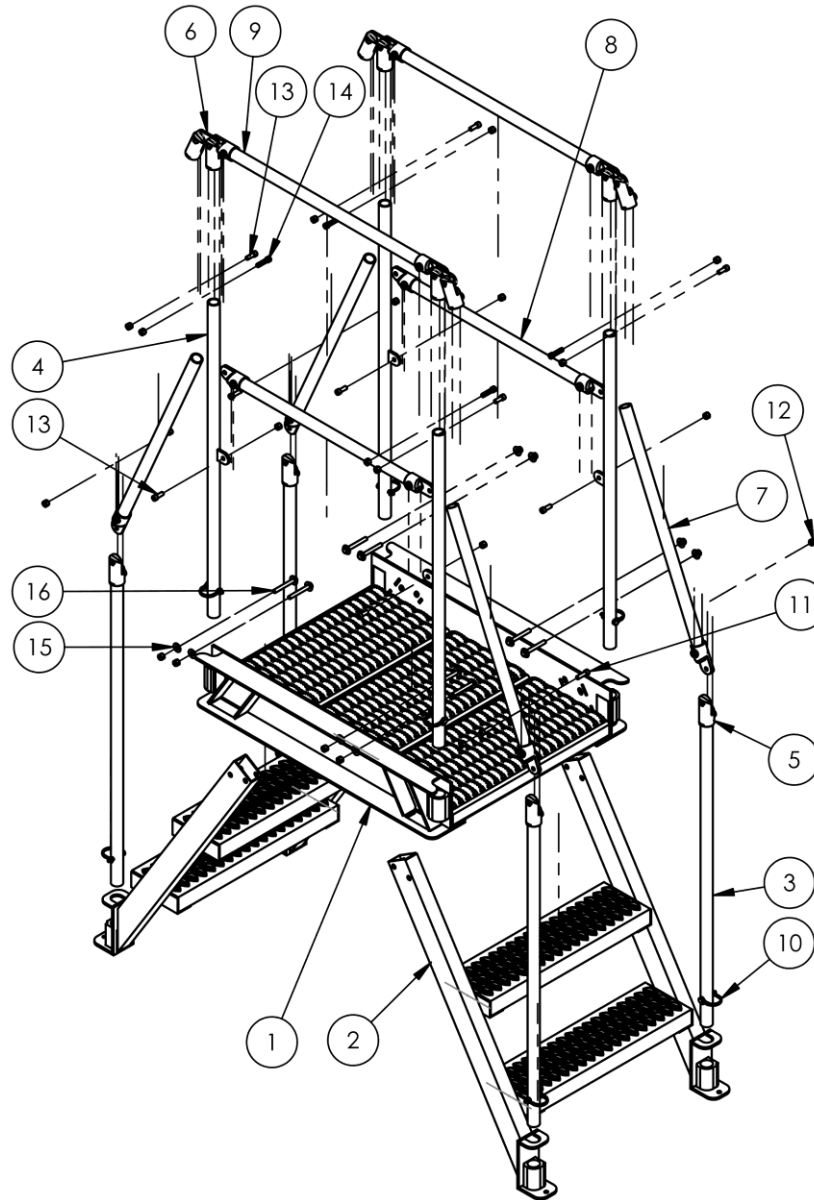
44-006-769



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-036	WELDMENT, PLATFORM	1
2	44-647-296	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT,GUARD,UPRIGHT,COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET,UPPER HANDRAIL,ALUM	4
7	44-024-347	GUARD,PIPE,ALUM,STEPS	4
8	44-024-352	GUARD,PIPE,ALUM,PLATFORM MIDRAIL	2
9	44-024-356	GUARD,PIPE,ALUM,PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE,LOCKING PIN W/ RETAINER	8
11	23307	SHCS,UTILITY GRADE,3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-3-26-23

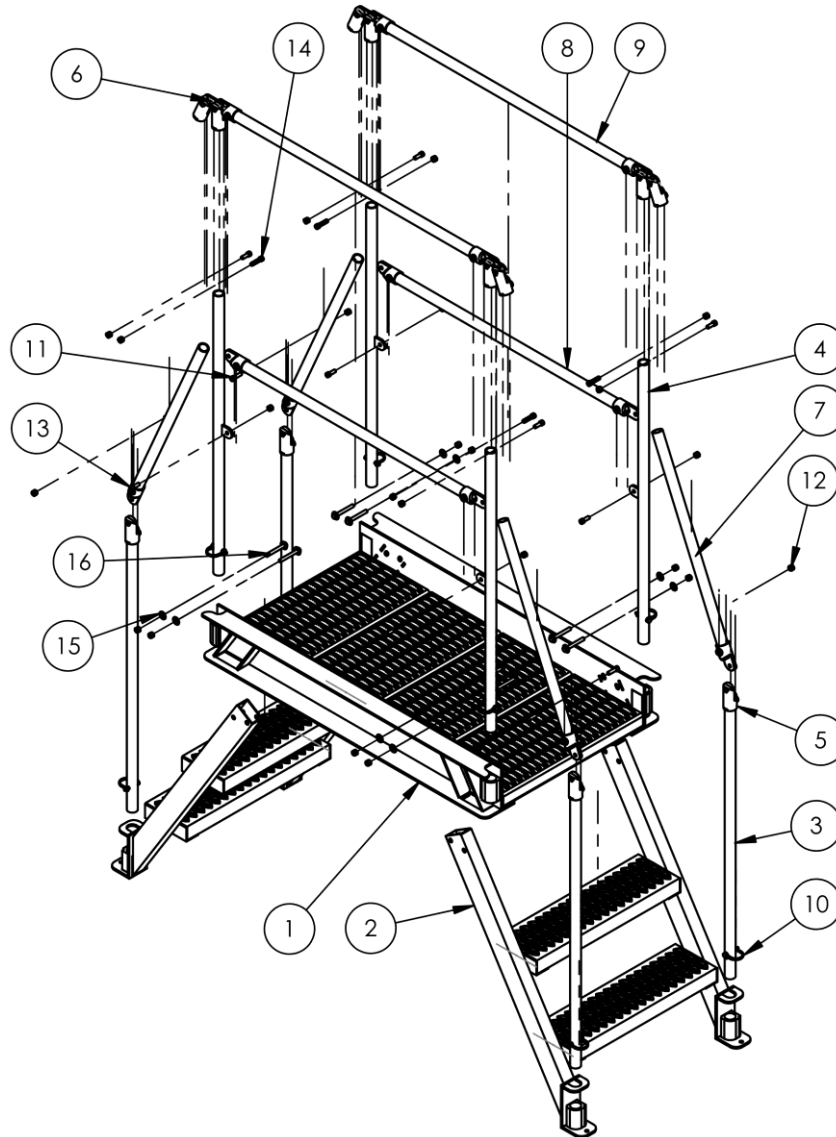
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-037	WELDMENT, PLATFORM	1
2	44-647-296	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-347	GUARD, PIPE, ALUM, STEPS	4
8	44-024-353	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-357	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-3-26-33

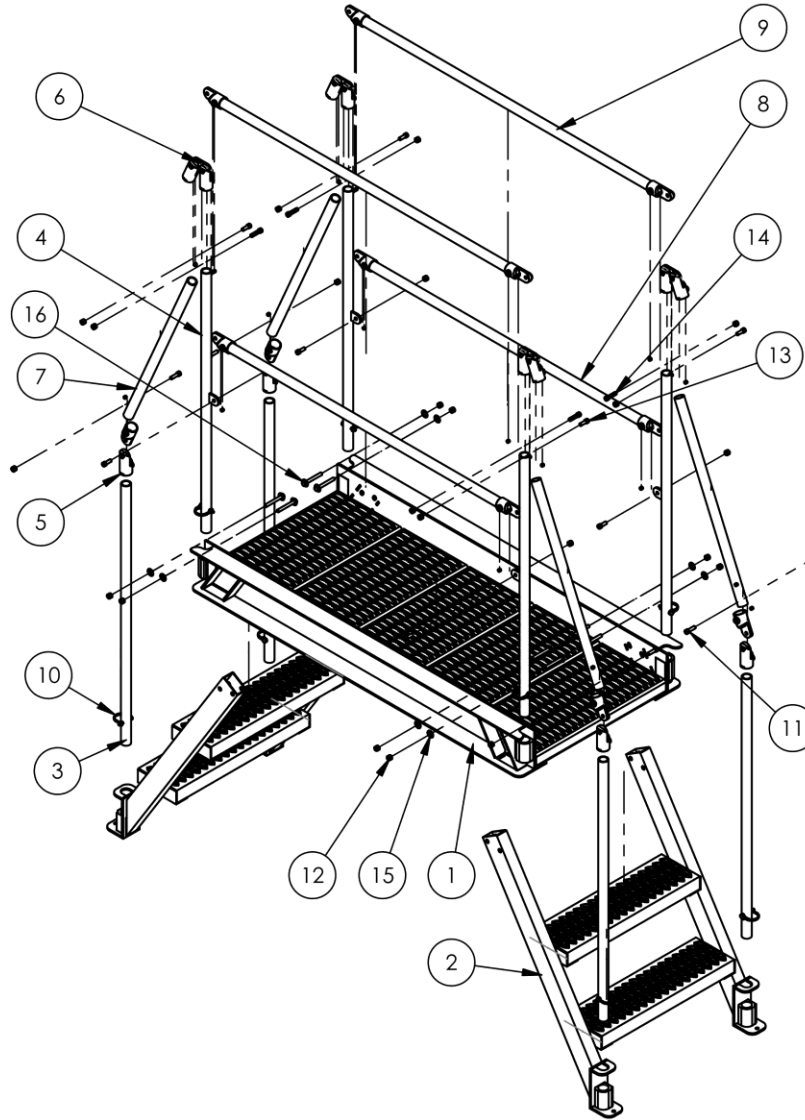
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-037	WELDMNT, PLATFORM	1
2	44-647-296	WELDMNT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMNT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-347	GUARD, PIPE, ALUM, STEPS	4
8	44-024-353	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-357	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-3-26-44

44-006-768



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-035	WELDMENT, PLATFORM	1
2	44-647-296	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT,GUARD,UPRIGHT,COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET,UPPER HANDRAIL,ALUM	4
7	44-024-347	GUARD,PIPE,ALUM,STEPS	4
8	44-024-351	GUARD,PIPE,ALUM,PLATFORM MIDRAIL	2
9	44-024-355	GUARD,PIPE,ALUM,PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE,LOCKING PIN W/ RETAINER	8
11	23307	SHCS,UTILITY GRADE,3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-4-36-14

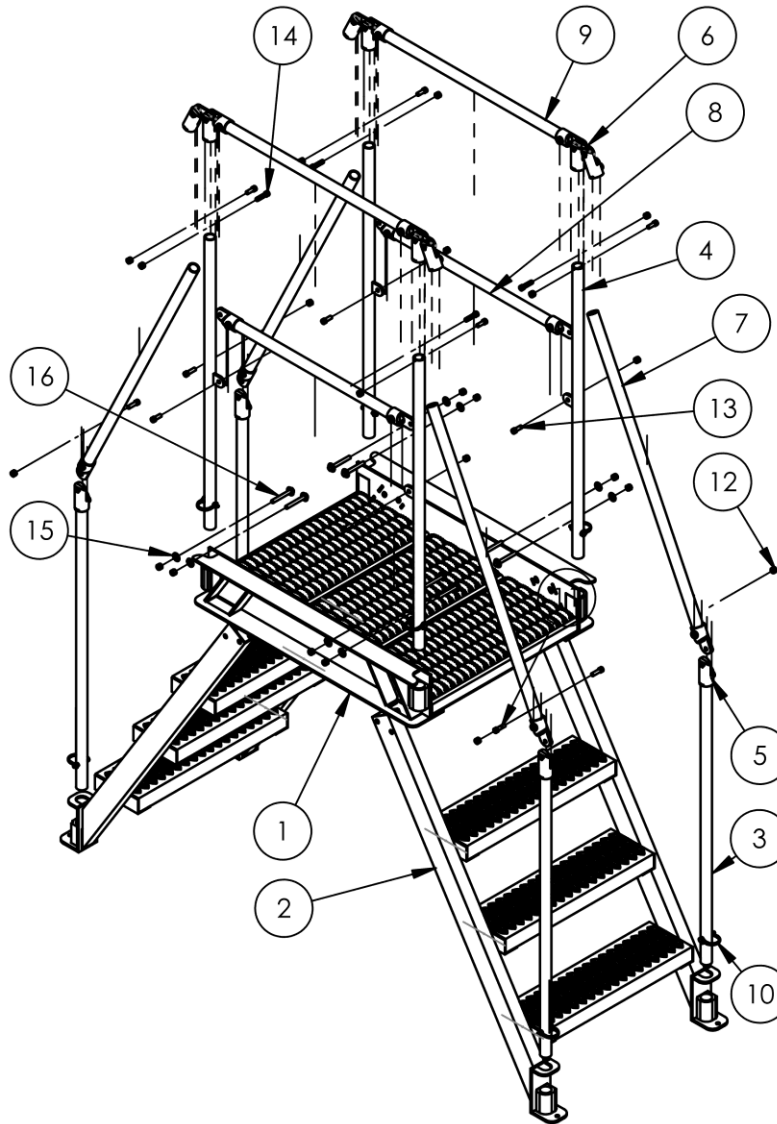
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-036	WELDMENT, PLATFORM	1
2	44-647-297	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-348	GUARD, PIPE, ALUM, STEPS	4
8	44-024-352	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-356	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-4-36-23

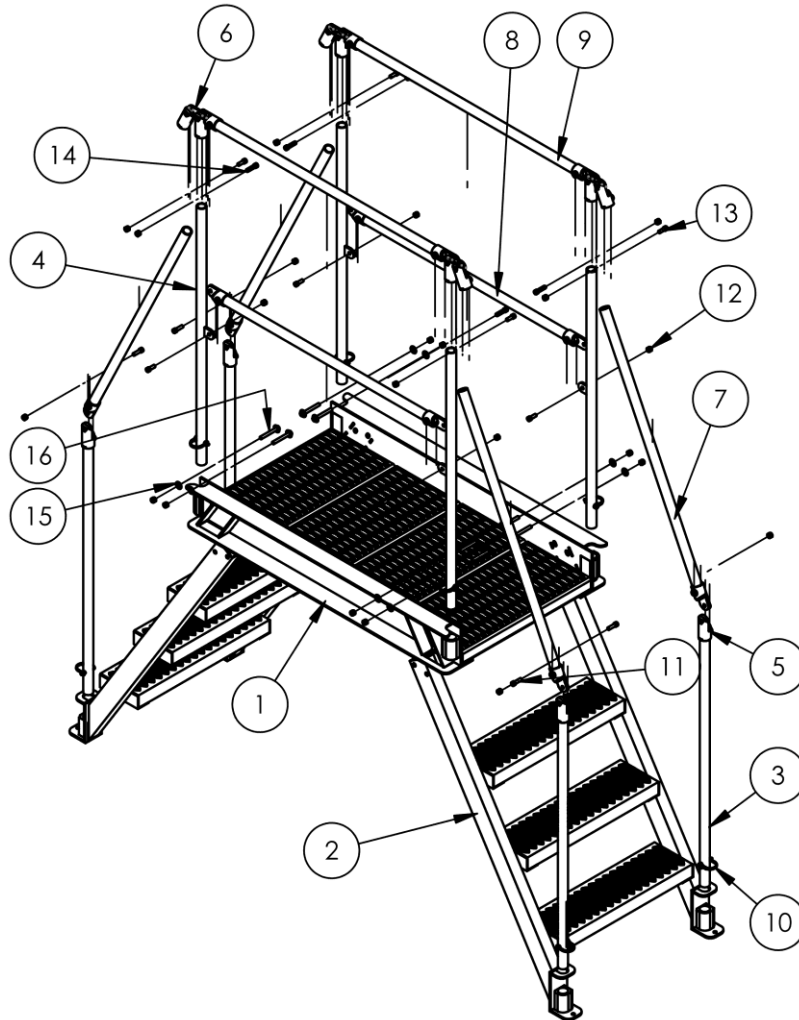
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-037	WELDMENT, PLATFORM	1
2	44-647-297	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-348	GUARD, PIPE, ALUM, STEPS	4
8	44-024-353	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-357	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-4-36-33

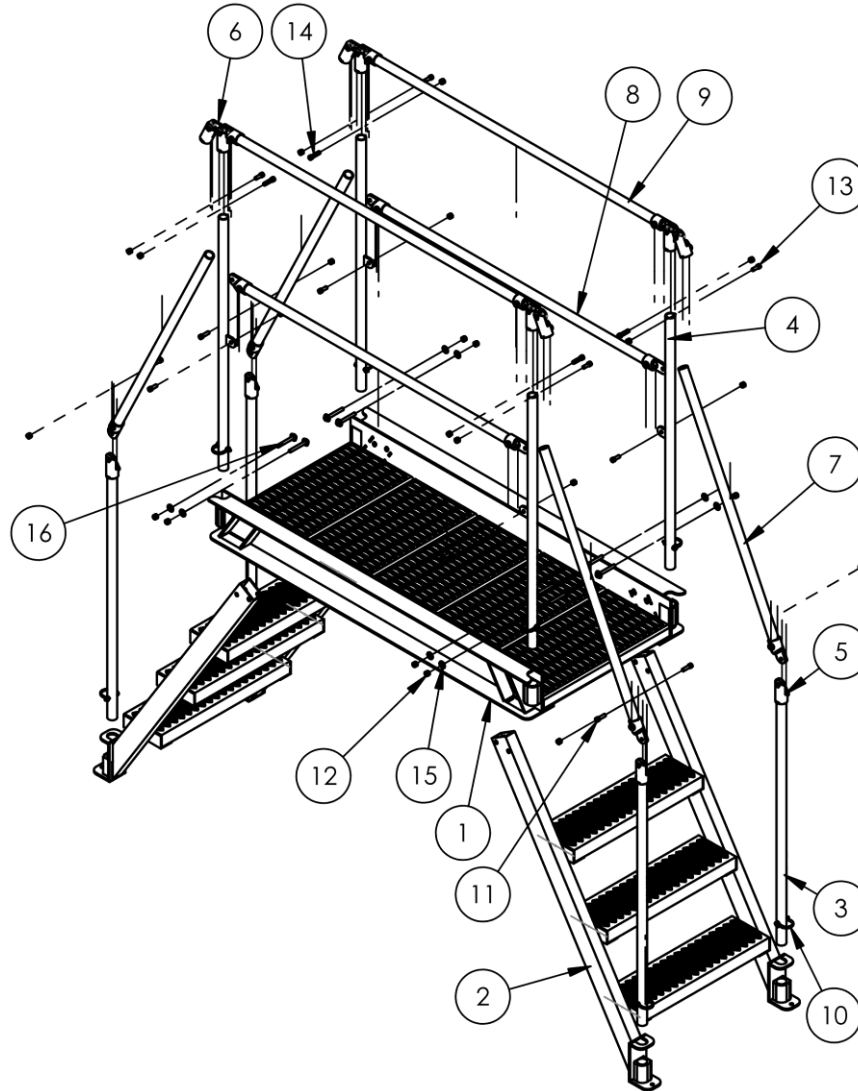
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-038	WELDMENT, PLATFORM	1
2	44-647-297	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-348	GUARD, PIPE, ALUM, STEPS	4
8	44-024-354	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-358	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-4-36-44

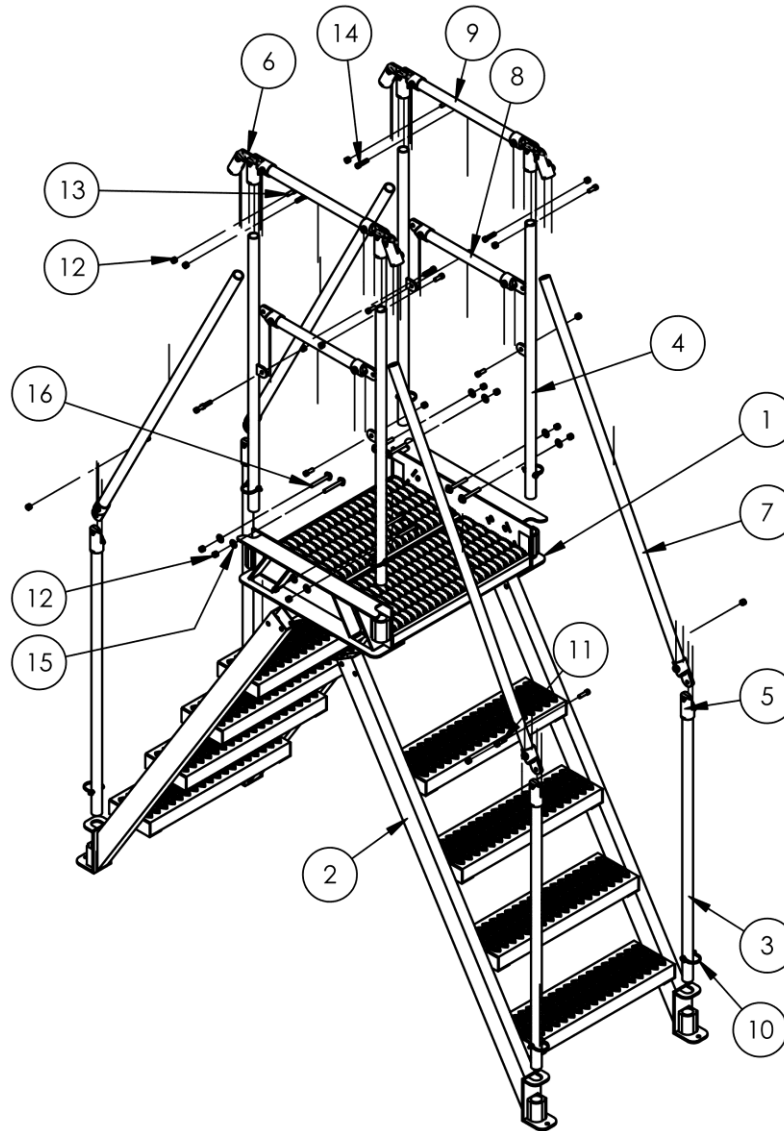
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-035	WELDMENT, PLATFORM	1
2	44-647-297	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-348	GUARD, PIPE, ALUM, STEPS	4
8	44-024-351	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-355	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-5-46-14

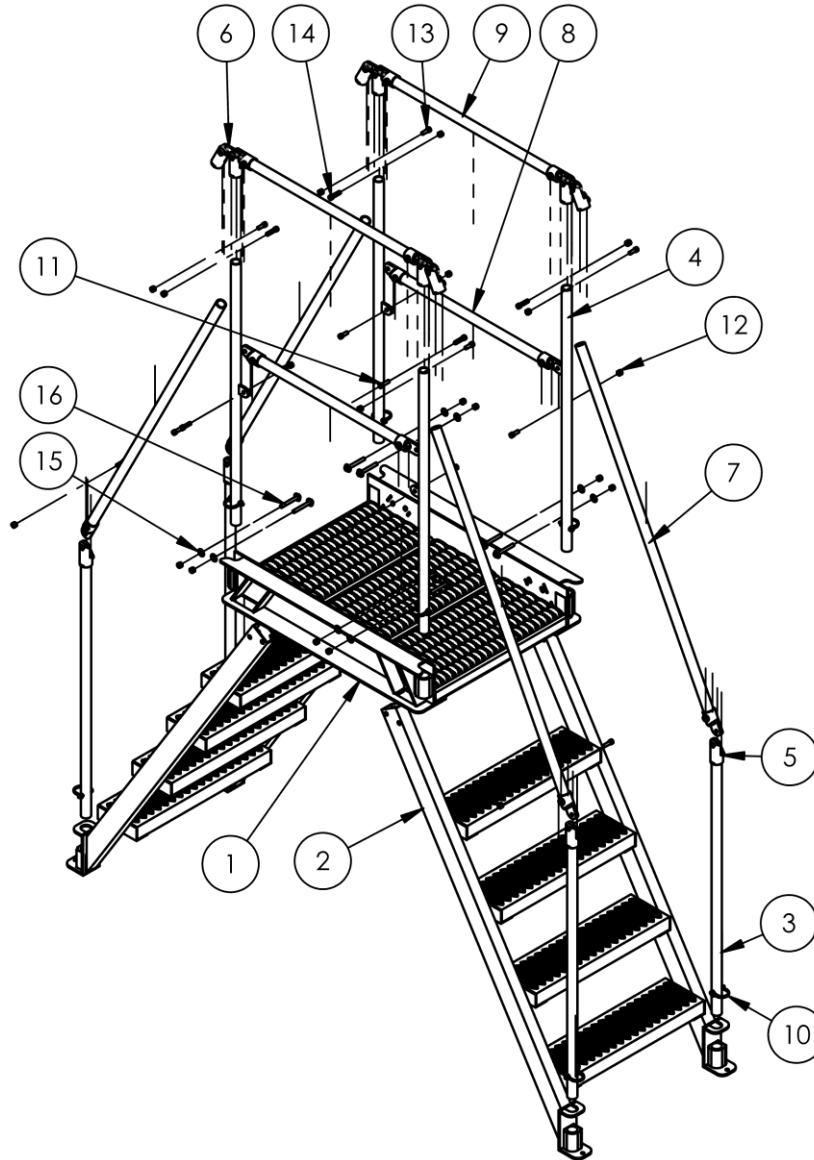
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-036	WELDMENT, PLATFORM	1
2	44-647-298	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-349	GUARD, PIPE, ALUM, STEPS	4
8	44-024-352	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-356	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-5-46-23

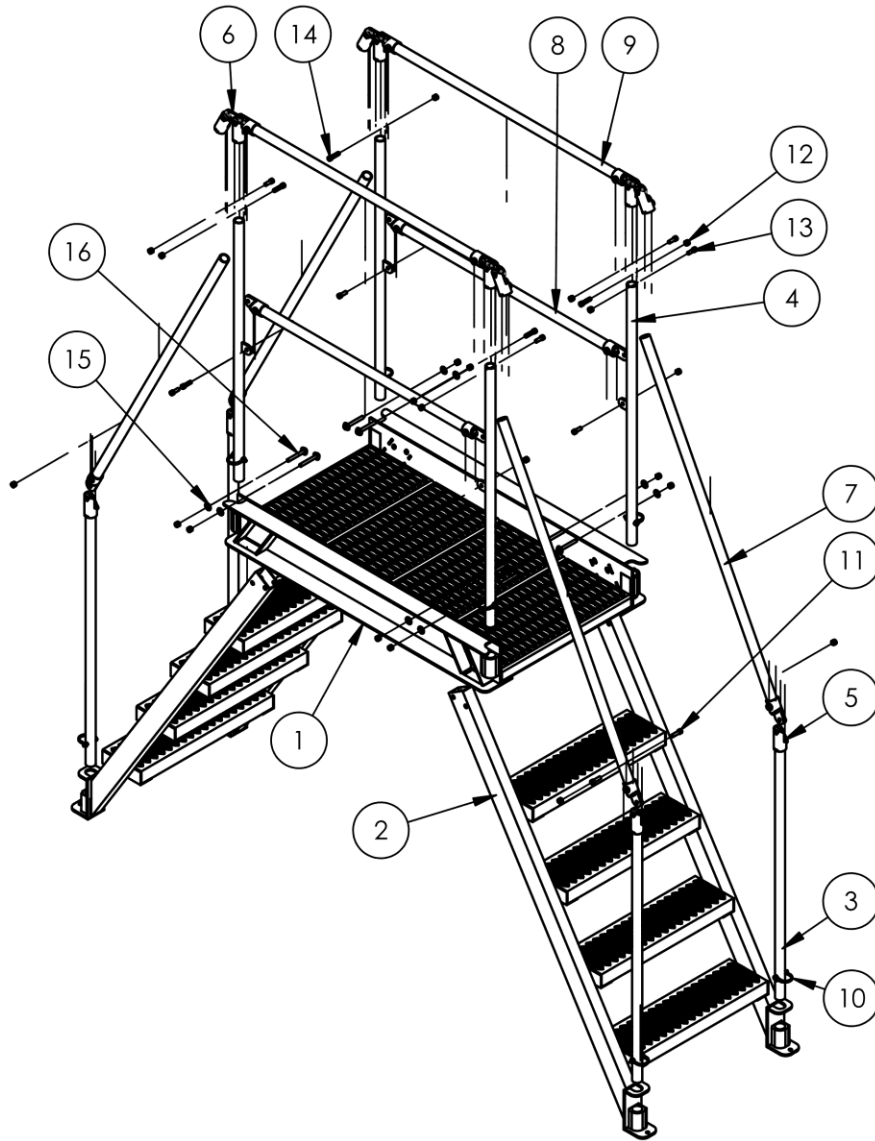
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-037	WELDMENT, PLATFORM	1
2	44-647-298	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-349	GUARD, PIPE, ALUM, STEPS	4
8	44-024-353	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-357	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-5-46-33

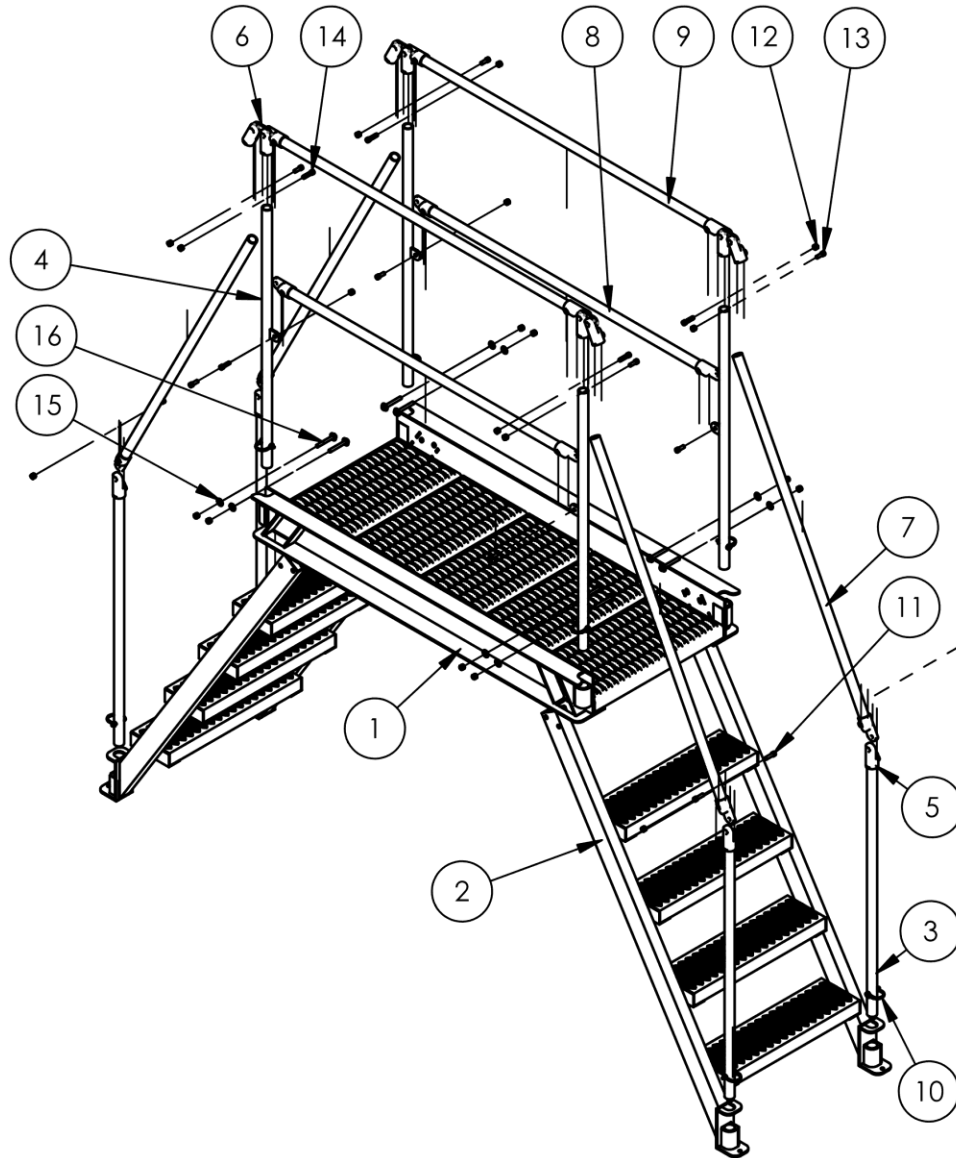
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ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-038	WELDMENT, PLATFORM	1
2	44-647-298	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-349	GUARD, PIPE, ALUM, STEPS	4
8	44-024-354	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-358	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-5-46-44

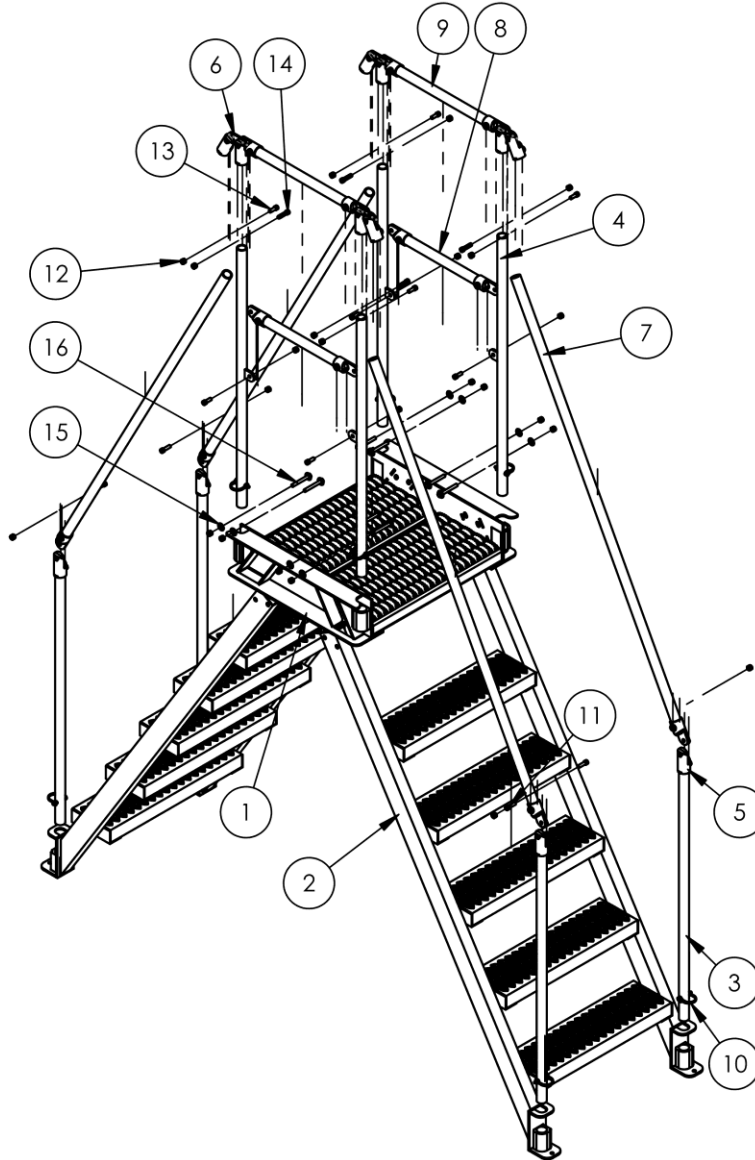
44-006-776



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-035	WELDMENT, PLATFORM	1
2	44-647-298	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT,GUARD,UPRIGHT,COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET,UPPER HANDRAIL,ALUM	4
7	44-024-349	GUARD,PIPE,ALUM,STEPS	4
8	44-024-351	GUARD,PIPE,ALUM,PLATFORM MIDRAIL	2
9	44-024-355	GUARD,PIPE,ALUM,PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE,LOCKING PIN W/ RETAINER	8
11	23307	SHCS,UTILITY GRADE,3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-6-56-14

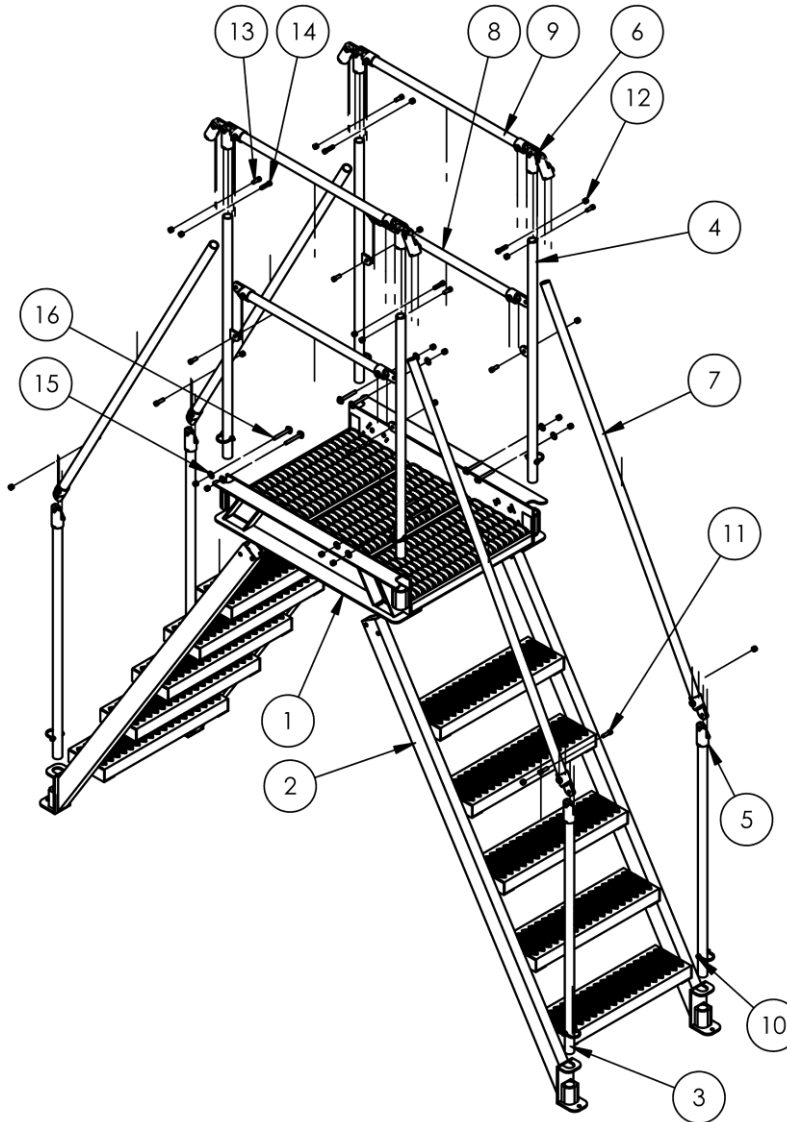
44-006-781



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-036	WELDMENT, PLATFORM	1
2	44-647-299	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-350	GUARD, PIPE, ALUM, STEPS	4
8	44-024-352	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-356	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-6-56-23

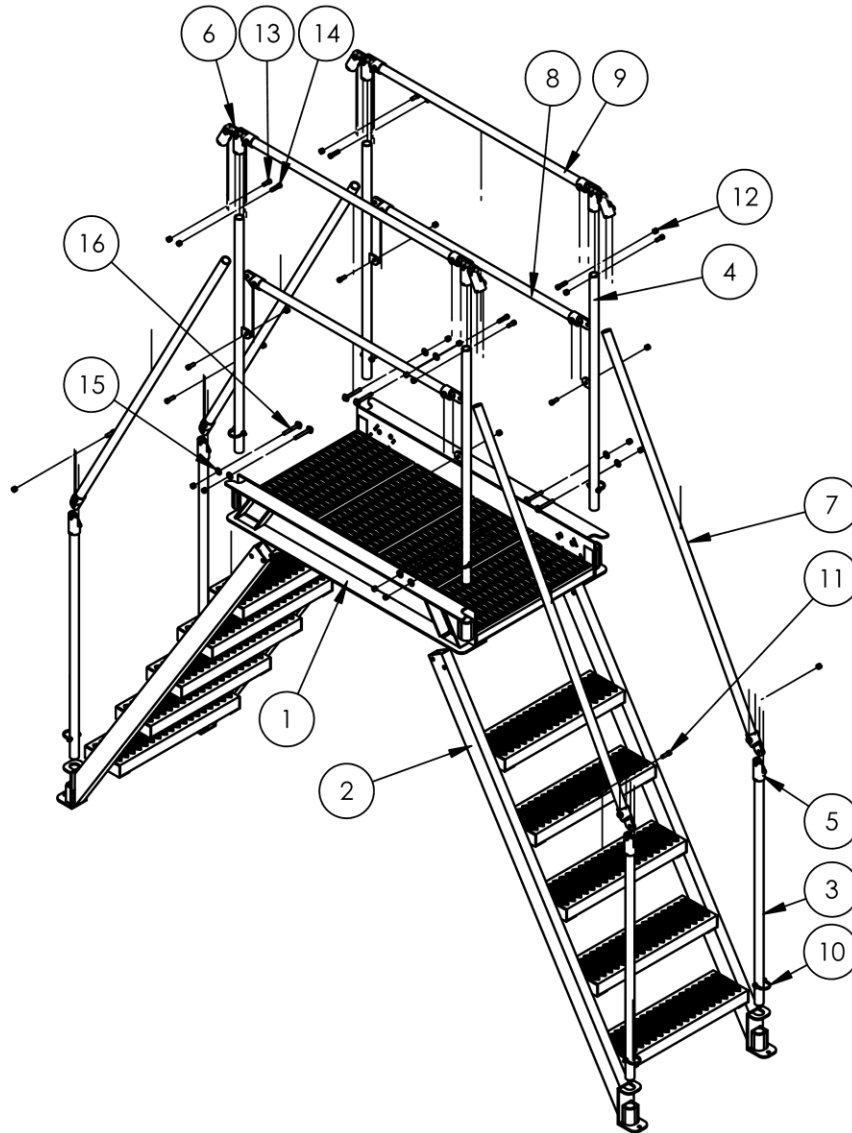
44-006-782



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-037	WELDMENT, PLATFORM	1
2	44-647-299	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD, PIPE, ALUM, UPRIGHT	4
4	44-524-229	WELDMENT, GUARD, UPRIGHT, COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET, UPPER HANDRAIL, ALUM	4
7	44-024-350	GUARD, PIPE, ALUM, STEPS	4
8	44-024-353	GUARD, PIPE, ALUM, PLATFORM MIDRAIL	2
9	44-024-357	GUARD, PIPE, ALUM, PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE, LOCKING PIN W/ RETAINER	8
11	23307	SHCS, UTILITY GRADE, 3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-6-56-33

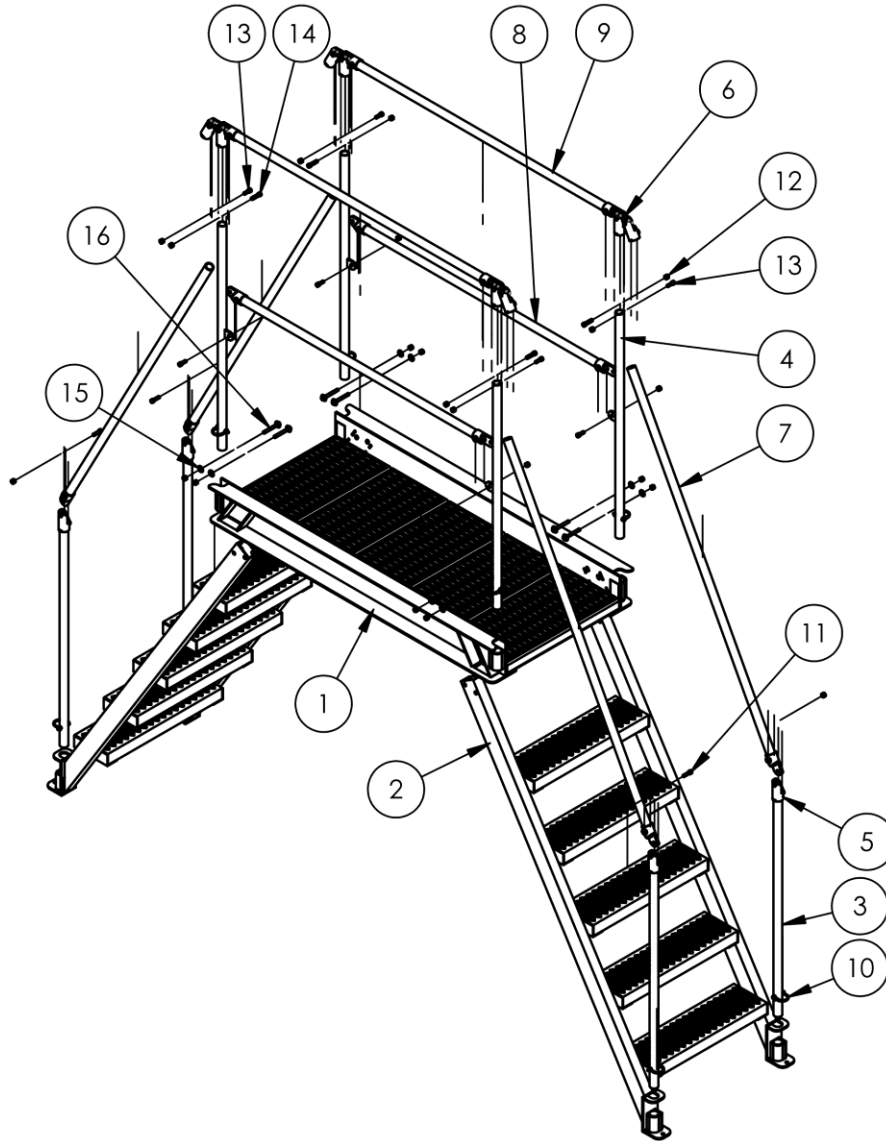
44-006-783



ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-038	WELDMENT, PLATFORM	1
2	44-647-299	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT,GUARD,UPRIGHT,COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET,UPPER HANDRAIL,ALUM	4
7	44-024-350	GUARD,PIPE,ALUM,STEPS	4
8	44-024-354	GUARD,PIPE,ALUM,PLATFORM MIDRAIL	2
9	44-024-358	GUARD,PIPE,ALUM,PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE,LOCKING PIN W/ RETAINER	8
11	23307	SHCS,UTILITY GRADE,3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

# Exploded View & Bill of Materials: COL-AL-6-56-44

44-006-780

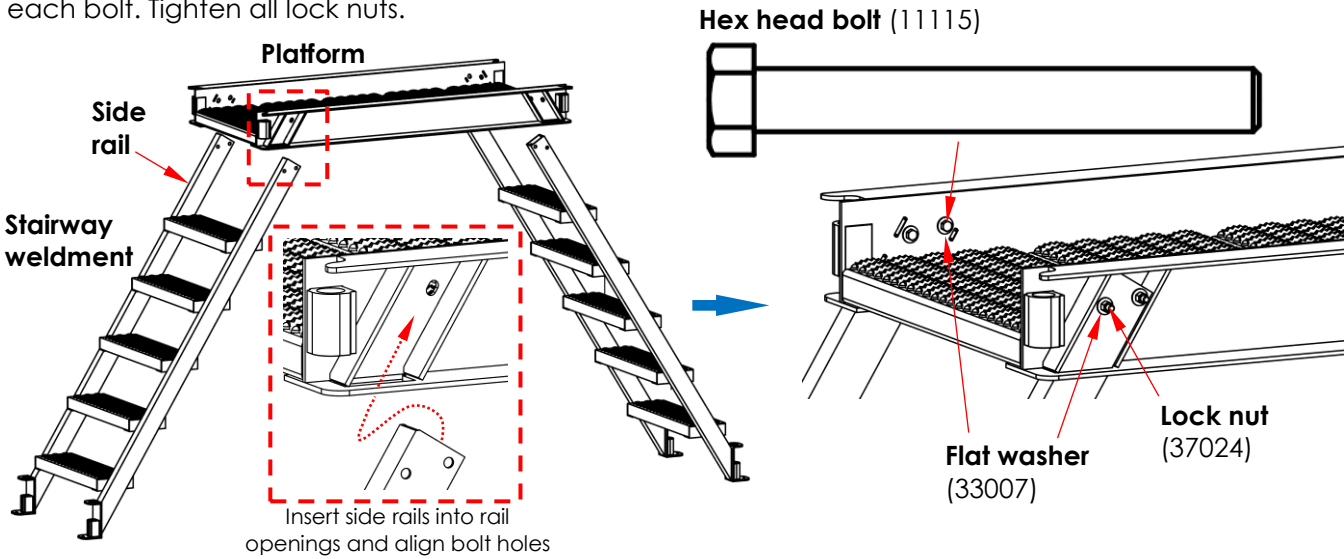


ITEM	PART NUMBER	DESCRIPTION	QTY.
1	44-513-035	WELDMENT, PLATFORM	1
2	44-647-299	WELDMENT, STEPS, FRAME	2
3	44-024-359	GUARD,PIPE,ALUM,UPRIGHT	4
4	44-524-229	WELDMENT,GUARD,UPRIGHT,COL	4
5	44-516-016	ASSEMBLY, HANDRAIL, PIPE END	24
6	44-016-149	BRACKET,UPPER HANDRAIL,ALUM	4
7	44-024-350	GUARD,PIPE,ALUM,STEPS	4
8	44-024-351	GUARD,PIPE,ALUM,PLATFORM MIDRAIL	2
9	44-024-355	GUARD,PIPE,ALUM,PLATFORM HANDRAIL	2
10	44-145-016	SPEC. HARDWARE,LOCKING PIN W/ RETAINER	8
11	23307	SHCS,UTILITY GRADE,3/8 - 16 x 1 1/4 LG.	4
12	37024	NYLON INSERT LOCK NUT, GRADE 2, ZINC FINISH, 3/8"-16	24
13	23305	SHCS, UTILITY GRADE, 3/8 - 16 x 1 LG.	8
14	23309	SHCS UTILITY GRADE, 3/8 - 16 UNC x 1 1/2" LG.	4
15	33007	3/8" USS FLAT WASHER, PLAIN	16
16	11115	HHCS, #2 Z PLATED, GRADE A, 3/8 - 16 x 3 LG.	8

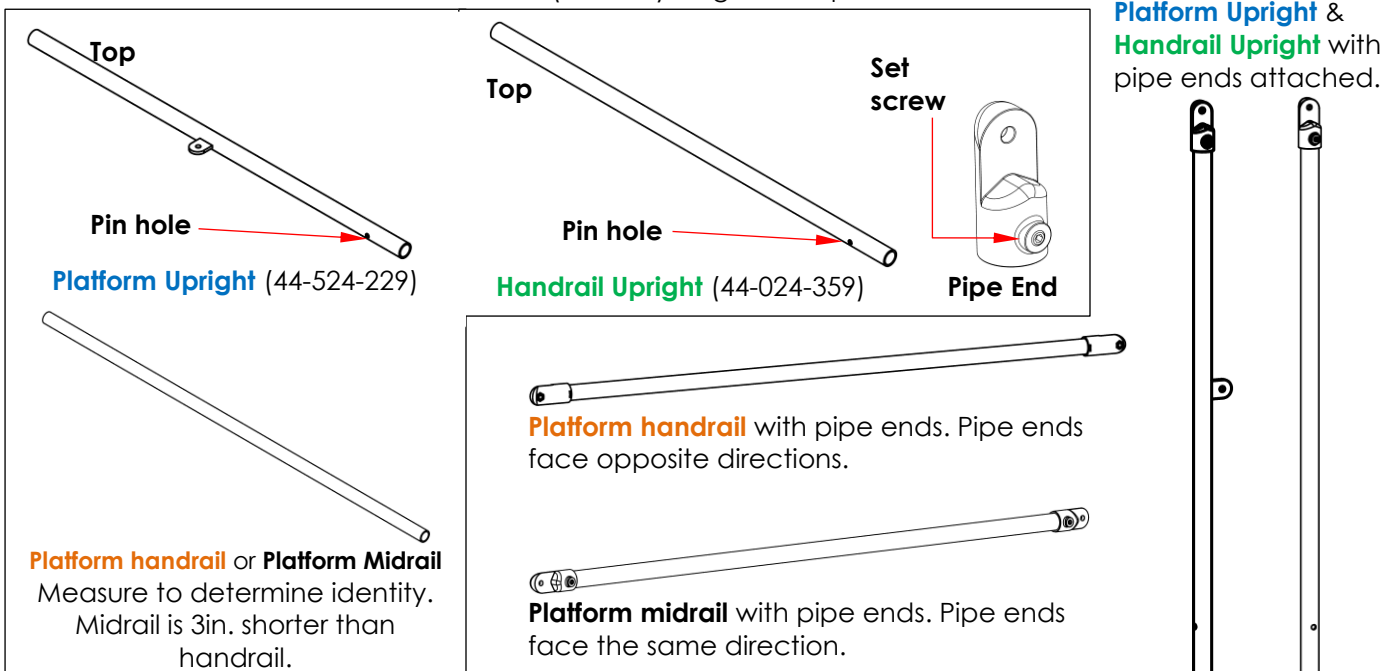
## ASSEMBLING THE CROSSOVER LADDER

This crossover ladder is shipped in a disassembled state. Fasten each of the stairway segments to the platform/deck before installing the handrails. When assembly is finished, anchor the ladder to the ground. Numbers in parentheses correspond to part numbers in the exploded views and their bills of materials on pages 3-18.

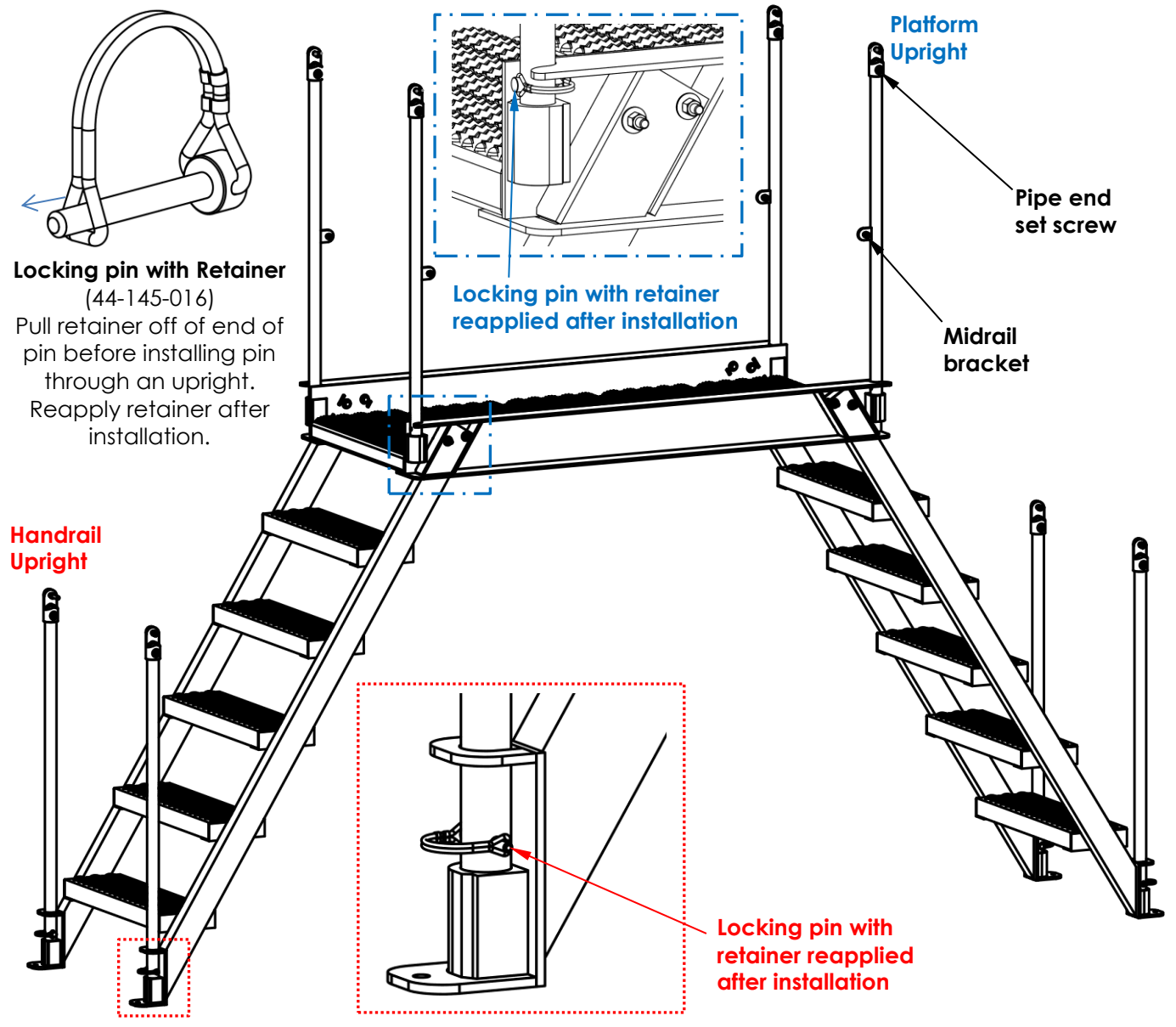
**STEP 1:** Attach the stairway weldments to the platform/deck with  $\frac{3}{8}$ "-16 hardware. There are 2 bolt holes at the top of each stair side rail and corresponding pairs of bolt holes at both ends of the toeboards. Insert the ends of the side rails through the rail openings in the platform. Put a flat washer (33007) on each of 4 bolts (11115;  $\frac{3}{8}$ "-16 x 3"). Then, install the bolts through the bolt holes in the toeboards and through the matching holes in the stairway side rails. Apply a flat washer (33007) and a lock nut (37024) to the end of each bolt. Tighten all lock nuts.



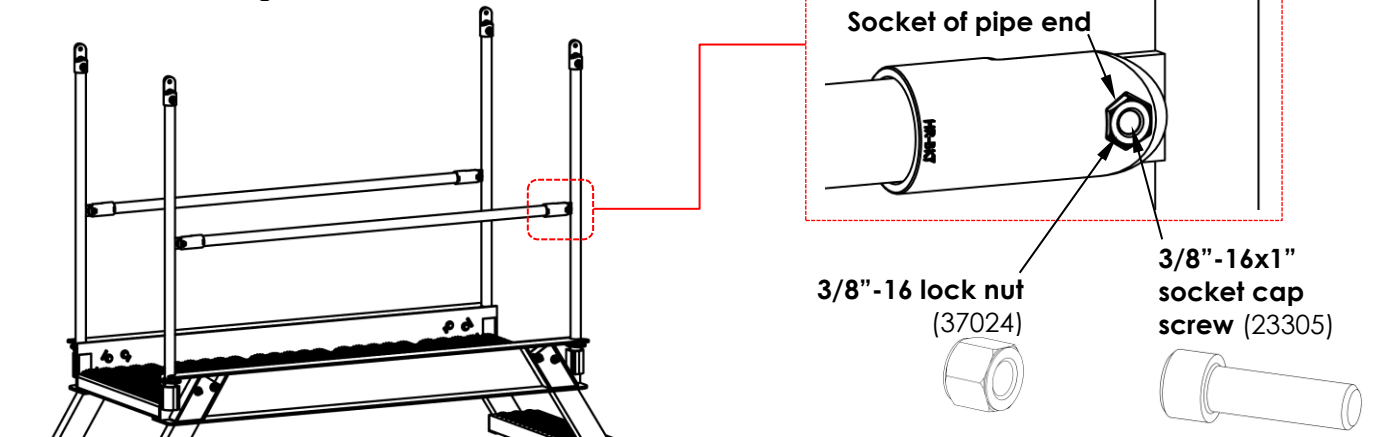
**STEP 2:** Find the 4 platform uprights (44-524-229) and the 4 handrail uprights (44-024-359). Uprights can be distinguished from handrails and midrails by the presence of pin holes. Attach pipe ends (44-516-016) to the tops of the 4 platform uprights. If a pipe end won't fit over the end of an upright, loosen the set screw. Tighten all set screws just enough to keep the pipe ends gently attached to the uprights. Set screws will be securely tightened later in the assembly process. Gently attach pipe ends to the tops of all 4 handrail uprights (44-024-359). Then, attach pipe ends to both ends of the upper handrails and both ends of the midrails. **NOTE 1:** Platform handrails are 3in. (~7.5cm) longer than platform midrails.



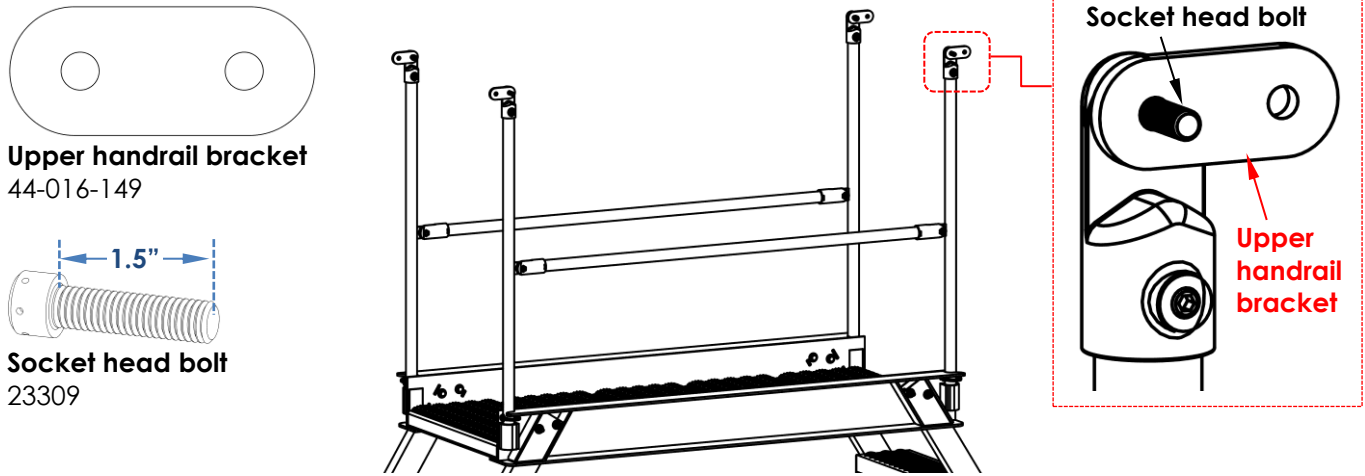
**STEP 3:** Install the **Platform Uprights** and **Handrail Uprights** into the appropriate sockets as shown in the diagram below. Make sure that the pipe ends face the same directions as shown in the diagram. Install locking pins through the pins holes in the bottom ends of the uprights as shown in the diagram.



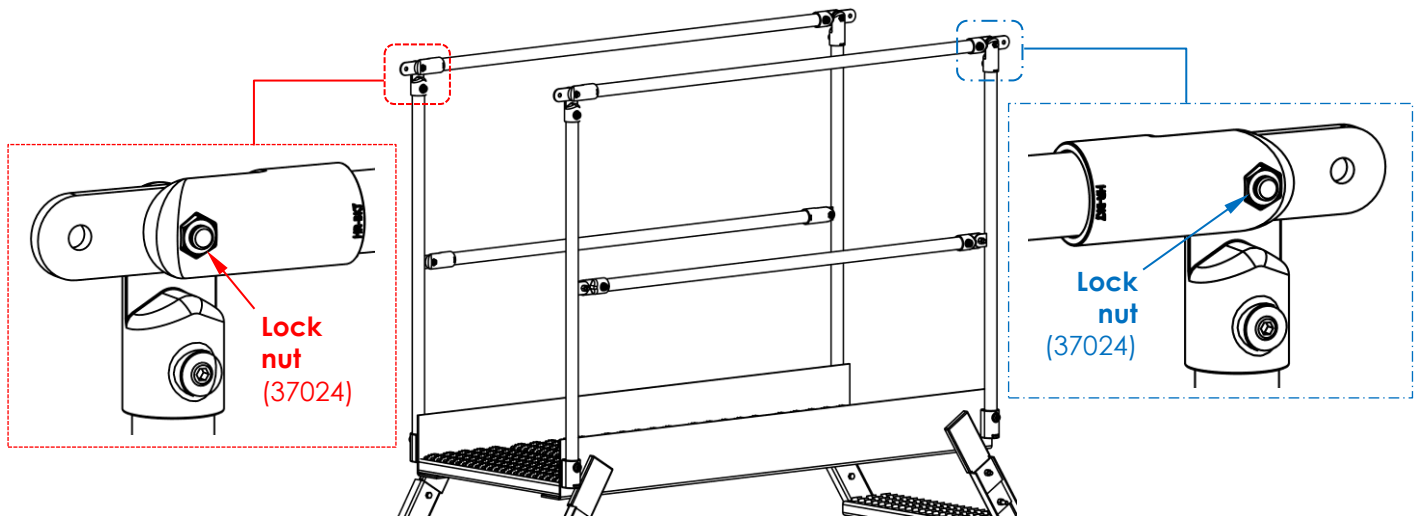
**STEP 4:** Attach midrails to the midrail brackets with 3/8"-16x1" socket cap screws and 3/8"-16 lock nuts. Set lock nuts (37024) in the pipe end sockets. Then, insert bolts through the midrail brackets and wind them into the lock nuts. Tighten all bolts.



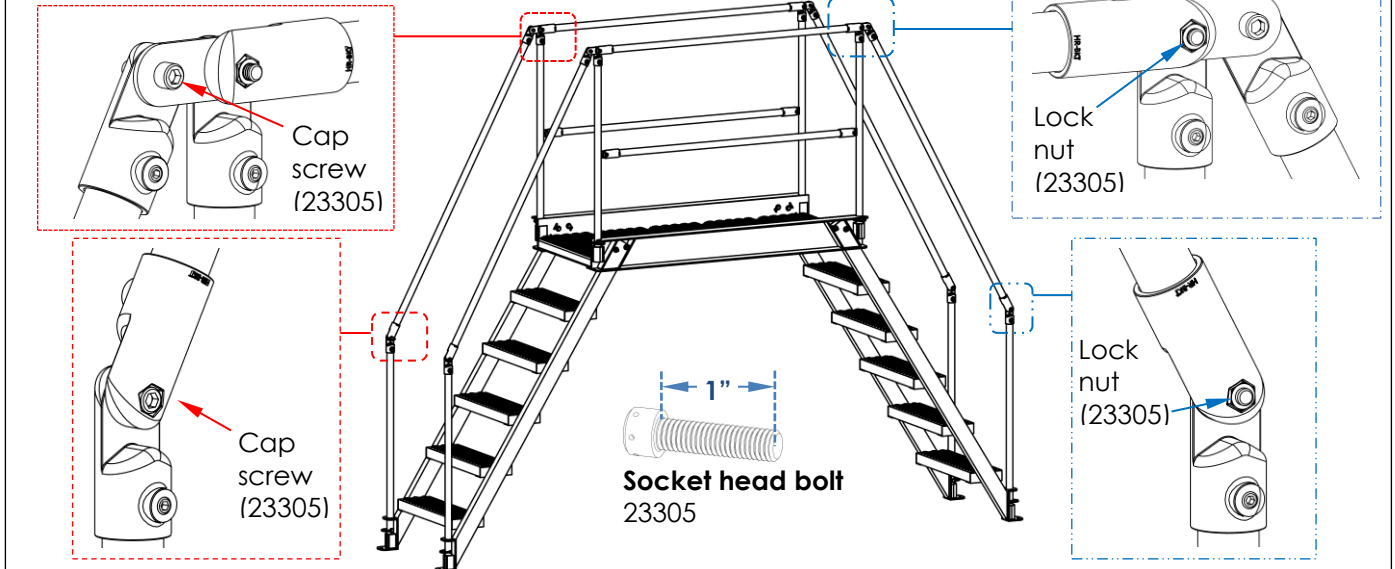
**STEP 5:** Insert 3/8"-16x1.5" socket head bolts (23309) through the pipe ends at the tops of the **Platform Uprights**. Slide one end of an **upper handrail bracket** onto each bolt as shown in the diagrams below.



**STEP 6:** Attach **Upper Handrails** to the **Platform Uprights** by sliding the pipe ends at both ends over the socket head bolts (23309) installed in the previous step. Secure these connections with lock nuts (37024).

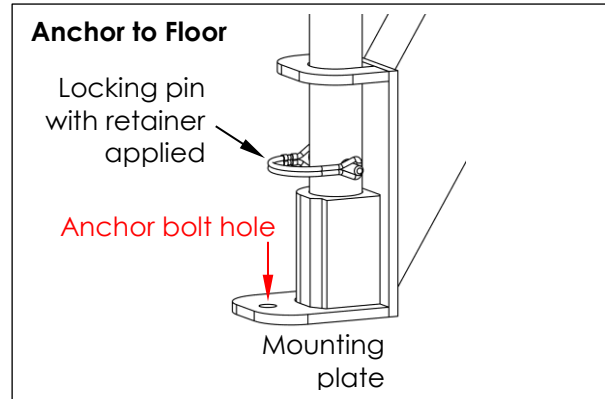


**STEP 7:** Attach handrails to the upper handrail brackets and to the handrail uprights with 3/8"-16x1" socket head cap screws (23305) and 3/8"-16 lock nuts (37024).



**STEP 8:** Tighten the pipe end set screws left loose in STEP 2.

**STEP 9:** Complete the installation of the crossover ladder by anchoring it to the floor. Concrete at the installation site must be intact, structurally sound, and well drained to prevent pooling of water. Select anchor bolts appropriate for surface conditions. Anchor bolt holes in the feet of the crossover ladder are 7/16" in diameter and will receive 5/16" diameter anchor bolts.



## RECORD OF SATISFACTORY CONDITION

After installing the crossover ladder and before using it for the first time, make a record of its condition and appearance. Thoroughly photograph the unit from multiple angles including all anchor points and all labels applied to it. Describe where each label is located. Collect all photographs and documents in a file. Mark the file appropriately to identify it. This file is a record of the crossover ladder in **satisfactory condition**. Compare the results of all inspections to this Record to determine if the unit is in satisfactory condition. Do not use it unless it is in satisfactory condition. Purely cosmetic changes, like damaged paint/powder coat do not constitute changes from satisfactory condition. However, touchup paint should be applied to all affected areas as soon as damage occurs to prevent rust from developing.

## INSPECTIONS AND MAINTENANCE

Proper maintenance is essential for maximizing the service life of the unit. If an inspection reveals any irregularities in the condition of the unit, repair it before returning it to service. Only use manufacturer-approved replacement parts. Contact **TECHNICAL SERVICE** if you have questions that are not addressed in these instructions, **or if you are uncertain how to address an issue** discovered during an inspection. Technical Service can be contacted by calling (260) 665-7586 and asking for the Service and Parts Department or by submitting questions online at <http://www.vestil.com/page-parts-request.php>.

Inspect and maintain the following components at least once per week as described:

### 1. Stairways:

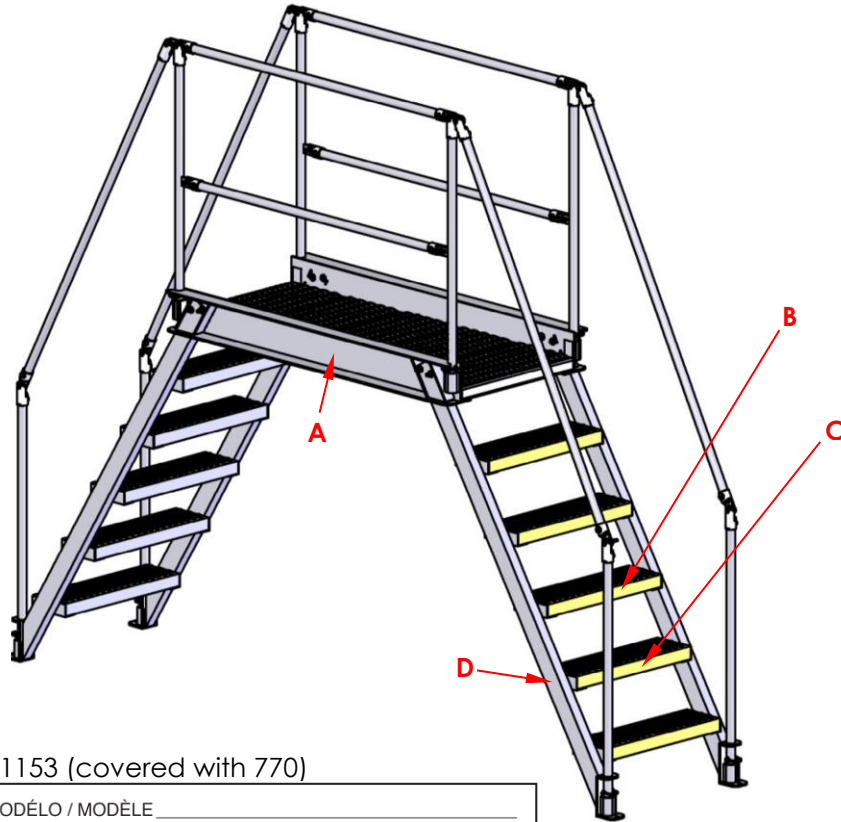
- i. Examine the stairways for damage such as cracked metal, cracked welds, damaged rungs, significant rusting or corrosion, metal fatigue/pitting/erosion, and other forms of damage.
- ii. Repair damaged welds. Appropriately patch damaged metal.
- iii. Closely examine the feet/mounting plates and anchor points because they are in direct contact with the ground. Make sure that feet are free of significant rust and corrosion and that all anchor bolts are tightly fastened to the ground. Although hot dip galvanized COL crossover ladders can be installed outdoors, they should not be installed where water pools. Feet need to be kept dry whenever it is not raining or snowing.
- iv. Gently remove rust/corrosion and clean the affected areas. Apply touchup paint to the areas as soon as they dry. Apply touchup paint to all areas where the finish is damaged. Periodically clean dirt and debris from all surfaces—especially steps—to keep the finish in good condition. Slippery substances, such as grease and oil, must be cleaned from the steps as soon as contact occurs.

**2. Handrails, midrails, and uprights (platform and handrail):** Inspect all components of the railing system for punctures, bends, cracks, corrosion, rust, metal fatigue/pitting/erosion, and other damage. Closely examine all hardware (bolts, nuts, washers). Tighten loose connections. Replace damaged hardware.

**3. Labeling:** Make sure all labels are in place & in easily readable condition. See [LABELING DIAGRAM](#) on p. 23.

## LABELING DIAGRAM

Label content and location are subject to change so your product might not be labeled exactly as shown. Replace all labels that are damaged, missing, or not easily readable (e.g. faded). Order replacement labels by contacting the [TECHNICAL SERVICE AND REPLACEMENT PARTS DEPARTMENT](https://www.vestil.com/page-parts-request.php) online at <https://www.vestil.com/page-parts-request.php>. Alternatively, you may request replacement parts and/or service by calling (260) 665-7586 and asking the operator to connect you to the Parts Department.



**A:** Label 1153 (covered with 770)

MODEL / MODÉLO / MODÈLE _____
WEIGHT / PESO / MASS _____
CAPACITY / CAPACIDAD / CAPACITÉ _____
SERIAL / SERIE / SÉRIE _____
UNITS: 2.2 lb. = 1kg      1" (or 1in.) = 2.54cm <b>1153</b>

**B:** Label 821 (both stairways; eye level or top step)

821 rev 01/20	<b>⚠ WARNING</b>
	Risk of serious injury or death. Read and understand entire owner's manual BEFORE using.

**C:** Label 740 (both stairways; on step below 821)

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
<ul style="list-style-type: none"> <li>• Do not use near live electric lines</li> <li>• Do not climb rails or lean over rails</li> <li>• Do not use if damaged or worn</li> <li>• Use ladder on level, smooth surfaces only</li> </ul>	<ul style="list-style-type: none"> <li>• No use cerca de líneas electricas</li> <li>• No se suba o se asome en la barandilla</li> <li>• No use si esta danado o gastado</li> <li>• Use la escalera en superficies a nivel y lisas</li> </ul>	<ul style="list-style-type: none"> <li>• Ne pas utiliser près des lignes électriques sous tension</li> <li>• Ne pas grimper sur ou vous pencher des rails</li> <li>• Ne pas utiliser si endommagée ou usagée</li> <li>• Utiliser l'échelle seulement sur des surfaces plates et lisses</li> </ul>

**D:** Label 204 (both stairways close to foot)

⚠ WARNING	⚠ ADVERTENCIA	⚠ AVERTISSEMENT
SECURE FRAME TO FLOOR	ASEGURE EL BASTIDOR AL PISO	FIXER SOLIDEMENT LE CADRE AU PLANCHER

## LIMITED WARRANTY

Vestil Manufacturing Company ("Vestil") warrants this product to be free of defects in material and workmanship during the warranty period. Our warranty obligation is to provide a replacement for a defective, original part covered by the warranty after we receive a proper request from the Warrantee (you) for warranty service.

### Who may request service?

Only a warrantee may request service. You are a warrantee if you purchased the product from Vestil or from an authorized distributor AND Vestil has been fully paid.

### Definition of "original part"?

An original part is a part used to make the product as shipped to the Warrantee.

### What is a "proper request"?

A request for warranty service is proper if Vestil receives: 1) a photocopy of the Customer Invoice that displays the shipping date; AND 2) a written request for warranty service including your name and phone number. Send requests by one of the following methods:

<u>US Mail</u>	<u>Fax</u>	<u>Email</u>
Vestil Manufacturing Company 2999 North Wayne Street, PO Box 507 Angola, IN 46703	(260) 665-1339 <u>Phone</u> (260) 665-7586	<a href="mailto:info@vestil.com">info@vestil.com</a> Enter "Warranty service request" in the subject field.

In the written request, list the parts believed to be defective and include the address where replacements should be delivered. After Vestil receives your request for warranty service, an authorized representative will contact you to determine whether your claim is covered by the warranty. Before providing warranty service, Vestil will require you to send the entire product, or just the defective part (or parts), to its facility in Angola, IN.

### What is covered under the warranty?

The warranty covers defects in the following original, dynamic parts: motors, hydraulic pumps, motor controllers, and cylinders. It also covers defects in original parts that wear under normal usage conditions ("wearing parts"), such as bearings, hoses, wheels, seals, brushes, and batteries.

### How long is the warranty period?

The warranty period for original dynamic components is 90 days. For wearing parts, the warranty period is 90 days. Both warranty periods begin on the date Vestil ships the product to the Warrantee. If the product was purchased from an authorized distributor, the periods begin when the distributor ships the product. Vestil may, at its sole discretion, extend a warranty period for products shipped from authorized distributors by up to 30 days to account for shipping time.

### If a defective part is covered by the warranty, what will Vestil do to correct the problem?

Vestil will provide an appropriate replacement for any covered part. An authorized representative of Vestil will contact you to discuss your claim.

### What is not covered by the warranty?

The Warrantee (you) is responsible for paying labor costs and freight costs to return the product to Vestil for warranty service.

### Events that automatically void this Limited Warranty.

- Misuse;
- Negligent assembly, installation, operation or repair;
- Installation/use in corrosive environments;
- Inadequate or improper maintenance;
- Damage sustained during shipping;
- Collisions or other accidents that damage the product;
- Unauthorized modifications: Do not modify the product IN ANY WAY without first receiving written authorization from Vestil.

### Do any other warranties apply to the product?

Vestil Manufacturing Co. makes no other express warranties. All implied warranties are disclaimed to the extent allowed by law. Any implied warranty not disclaimed is limited in scope to the terms of this Limited Warranty. Vestil makes no warranty or representation that this product complies with any state or local design, performance, or safety code or standard. Noncompliance with any such code or standard is not a defect in material or workmanship.

