

# Operating, Maintenance & Parts Manual

# CT-A SERIES (4-WHEEL 1/4 - 3 TON MODELS)



**Follow all instructions and warnings for inspecting, maintaining and operating this trolley.**

The use of any trolley presents some risk of personal injury or property damage. That risk is greatly increased if proper instructions and warnings are not followed. Before using this trolley, each operator should become thoroughly familiar with all warnings, instructions, and recommendations in this manual. Retain this manual for future reference and use.

**Forward this manual to the trolley operator.** Failure to operate the equipment as directed in the manual may cause injury. Should you have any questions regarding this product, please call Coffing Hoists at (800) 477-5003.

## INSTALLATION

### GENERAL INFORMATION

The Coffing CT-A Series Trolleys are designed for use with loads up to 3 tons. Dual-tread wheels allow the trolley to be mounted on American Standard Beams (tapered flange) or Wide Flange Beams (flat flange) with a flange width of 3.33" to 7.00". Each CT-A Series Trolley includes safety lugs and four-inch diameter, machined wheels. The hoisting equipment described in these instructions is intended for industrial use only and **should not be used to lift, support or otherwise transport people.**

### LOAD RATINGS

Before installing, make certain the capacity of the hoist does not exceed the capacity of the trolley and the supporting structure is capable of supporting the load, hoist and trolley with a generous factor for safety.

### TROLLEY ADJUSTMENT

The trolley can be adjusted by moving washers to achieve a beam to wheel flange spacing of approximately 3/32" (Figure 1, Detail A). See Figure 3 for placement of washers per beam size.

### CURVED BEAM TROLLEY ADJUSTMENT

CT-A Series Trolleys can be mounted on curved beams with radii as small as four feet. Slightly increased spacing may be required to maintain freedom of movement. The amount of additional spacing required will depend on the radius of the beam.

### AVAILABLE OPTIONS

Consult factory for options such as patented-track wheels, wider flange width applications, etc.

## MAINTENANCE

### PERIODIC INSPECTION

The trolley should be inspected periodically for evidence of excess wear or overload and its continued ability to support the load. The frequency of inspection will depend on the severity of trolley use. It is recommended that the user begin with a monthly inspection and extend periods to quarterly, semi-annually or annually based on monthly experience. **Any worn parts should be replaced immediately.**

### INSPECTION ITEMS

The trolley should be visually inspected for the following conditions; loose locknuts, sideplate damage or bending, clevis wear, cracks or distortion, wheel wear or cracks, and worn bearings.

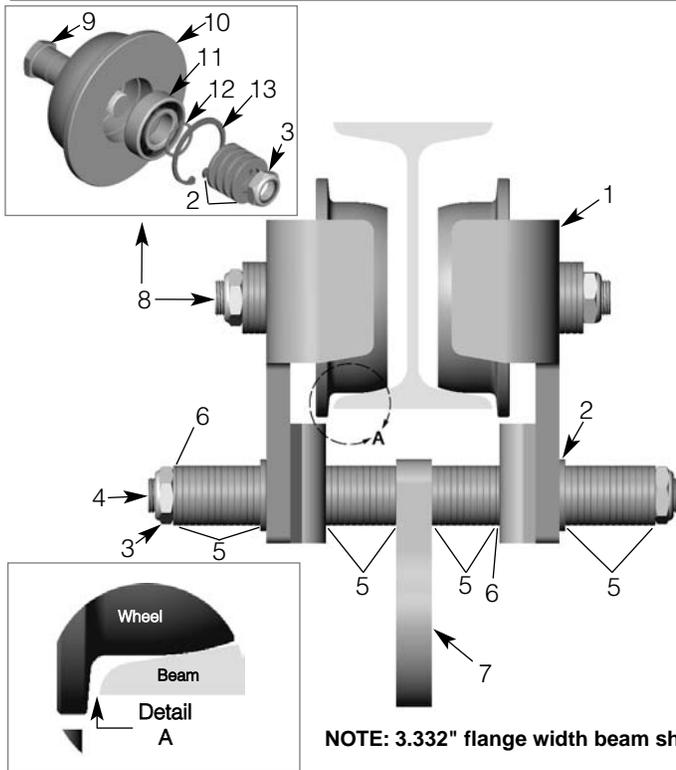
### LUBRICATION

Trolley wheels are equipped with sealed, lifetime-lubricated, precision ball bearings which should not require relubrication for the normal service of the trolley.

**Coffing Hoists** • Country Club Road • P.O. Box 779 •  
Wadesboro, North Carolina 28170 USA  
**Tel:** 800.477.5003 • **Fax:** 800.374.6853 • 704.694.6829  
[www.coffinghoists.com](http://www.coffinghoists.com)

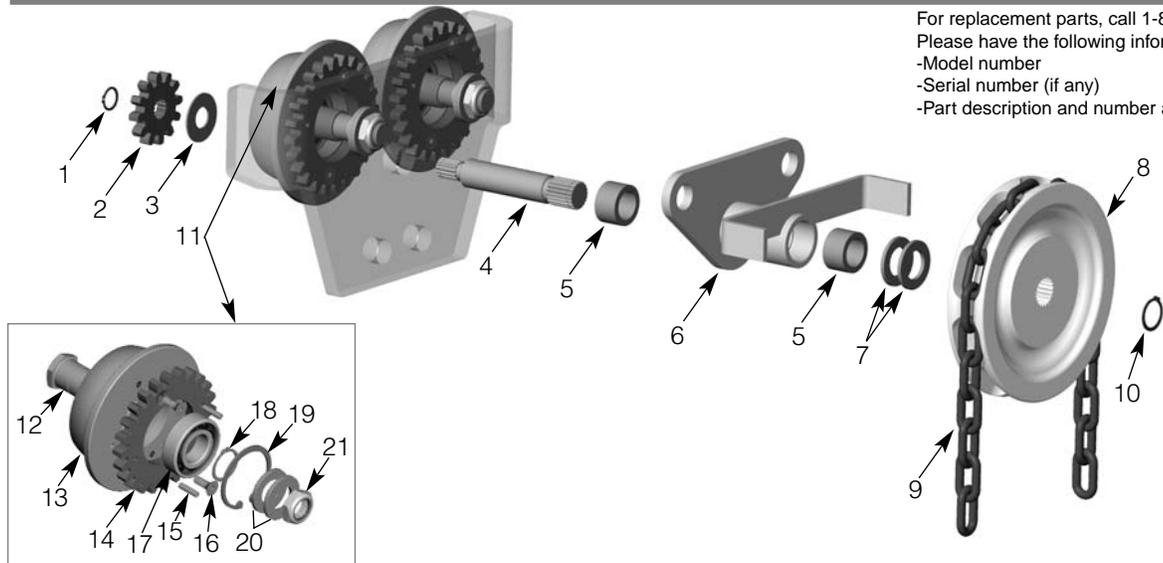
**COFFING**<sup>®</sup>  
**HOISTS**

## Figure 1 - CT-A Series Complete Plain Trolley



Ref No.	Description	Part No.	Qty.
1	Sideplate	5K101	2
2	Washer (.125" Thick)	H4211	20
3	Nut	H3945	8
4	Load Pin	103K30-2	2
5	Washer (.135" Thick)	H4209	96
6	Washer (.075" Thick)	H4210	4
7	Clevis	50K1	1
8	Plain Wheel Assembly	45JG1P	4
9	Axle	102K11	4
10	Plain Wheel	45J1P	4
11	Ball Bearing	JF504-2	4
12	Retaining Ring	H5549	4
13	Retaining Ring	SK2658-6W	4

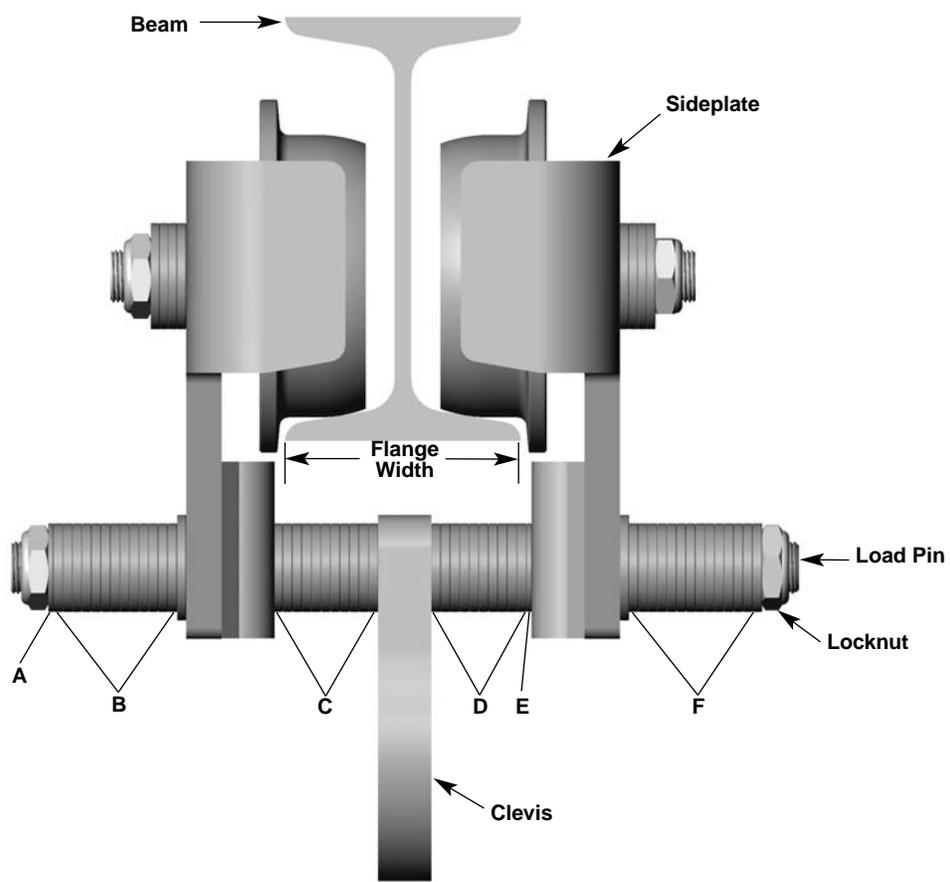
## Figure 2 - CT-A Series Geared Trolley



For replacement parts, call 1-800-477-5003  
 Please have the following information ready:  
 -Model number  
 -Serial number (if any)  
 -Part description and number as shown in parts list

Ref No.	Description	Part No.	Qty.	Ref No.	Description	Part No.	Qty.
1	Retaining Ring	H5501	1	12	Axle	102K11	2
2	Pinion	420K1	1	13	Geared Wheel	45J1G	2
3	Thrust Bearing (.063" Thick)	525K2	1	14	Gear	420K2	2
4	Gear Shaft	100K14-2	1	15	Pin	H5331	4
5	Sleeve Bushing	530K6	2	16	Screw	H2165	4
6	Sleeve and Adapter Assembly	51KG1-3	1	17	Ball Bearing	JF504-2	2
7	Thrust Bearing (.125" Thick)	525K1	2	18	Retaining Ring	H5549	2
8	Hand Chain Wheel	33K23	1	19	Retaining Ring	SK2658-6W	2
9	Hand Chain (Specify Length)	53A	1	20	Washer (.125" Thick)	H4211	4
10	Retaining Ring	H5527	1	21	Nut	H3945	2
11	Geared Wheel Assembly	45JG1G-1	2				

## Figure 3 - Washer Chart



STANDARD BEAM Size & Weight	Flange Width	Location A H4210 (Thin)	Location B H4209 (Thick)	Location C H4209 (Thick)	Location D H4209 (Thick)	Location E H4210 (Thin)	Location F H4209 (Thick)
6" x 12.5#	3.332	1	13	11	10	1	14
6" x 17.3#	3.565	2	12	12	11	0	13
7" x 15.3#	3.662	0	12	12	11	2	13
7" x 20.0#	3.860	1	11	13	12	1	12
8" x 18.4#	4.001	1	11	13	13	1	11
8" x 23.0#	4.171	1	10	14	13	1	11
10" x 25.4#	4.661	1	8	16	15	1	9
10" x 35.0#	4.944	1	7	17	16	1	8
12" x 31.8#	5.000	0	7	17	16	2	8
12" x 35.0#	5.078	1	7	17	17	1	7
12" x 40.8#	5.252	1	6	18	17	1	7
12" x 50.0#	5.477	1	5	19	18	1	6
15" x 42.9#	5.501	1	5	19	18	1	6
15" x 50.0#	5.640	1	5	19	19	1	5
18" x 54.7#	6.001	1	3	21	20	1	4
18" x 70.0#	6.251	2	2	22	21	0	3
20" x 66.0#	6.255	2	2	22	21	0	3
24" x 80.0#	7.000	1	0	24	24	1	0

WIDE FLANGE BEAM Size & Weight	Flange Width	Location A H4210 (Thin)	Location B H4209 (Thick)	Location C H4209 (Thick)	Location D H4209 (Thick)	Location E H4210 (Thin)	Location F H4209 (Thick)
5" x 16.0#	5.000	0	7	17	16	2	8
5" x 19.0#	5.030	1	7	17	17	1	7
6" x 9.0#	3.940	1	11	13	13	1	11
6" x 12.0#	4.000	2	10	14	13	0	11
6" x 15.0#	5.990	1	3	21	20	1	4
6" x 16.0#	4.030	2	10	14	13	0	11
6" x 20.0#	6.020	2	3	21	21	0	3
6" x 25.0#	6.080	1	3	21	21	1	3
8" x 10.0#	3.940	1	11	13	13	1	11
8" x 13.0#	4.000	2	10	14	13	0	11
8" x 15.0#	4.015	2	10	14	13	0	11
8" x 18.0#	5.250	2	6	18	18	0	6
8" x 21.0#	5.270	1	6	18	18	1	6
8" x 24.0#	6.495	1	1	23	22	1	2
8" x 28.0#	6.535	1	1	23	22	1	2
10" x 12.0#	3.960	1	11	13	13	1	11
10" x 15.0#	4.000	2	10	14	13	0	11
10" x 17.0#	4.010	2	10	14	13	0	11
10" x 19.0#	4.020	2	10	14	13	0	11
10" x 22.0#	5.750	2	4	20	20	0	4
10" x 26.0#	5.770	2	4	20	20	0	4
10" x 30.0#	5.810	1	4	20	20	1	4
12" x 14.0#	3.970	1	11	13	13	1	11
12" x 16.0#	3.990	2	10	14	13	0	11
12" x 19.0#	4.005	2	10	14	13	0	11
12" x 22.0#	4.030	2	10	14	13	0	11
12" x 26.0#	6.490	1	1	23	22	1	2
12" x 30.0#	6.520	1	1	23	22	1	2
12" x 35.0#	6.560	2	1	23	23	0	1
14" x 22.0#	5.000	1	7	17	17	1	7
14" x 26.0#	5.025	1	7	17	17	1	7
14" x 30.0#	6.730	0	1	23	23	2	1
14" x 34.0#	6.745	0	1	23	23	2	1
14" x 38.0#	6.770	1	0	24	23	1	1
16" x 26.0#	5.500	2	5	19	19	0	5
16" x 31.0#	5.525	0	5	19	18	2	6
16" x 36.0#	6.985	0	0	24	24	2	0
16" x 40.0#	6.995	0	0	24	24	2	0
18" x 35.0#	6.000	1	3	21	20	1	4
18" x 40.0#	6.015	2	3	21	21	0	3
18" x 46.0#	6.060	0	3	21	20	2	4
21" x 44.0#	6.500	1	1	23	22	1	2
21" x 50.0#	6.530	1	1	23	22	1	2
21" x 57.0#	6.555	2	1	23	23	0	1
24" x 55.0#	7.005	0	0	24	24	2	0