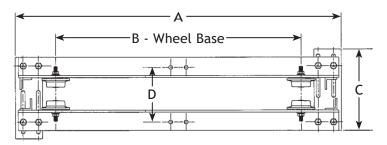
Please read and save these instructions. Read carefully before attempting to assemble, install, operate or maintain the product described. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage! Retain instructions for future reference.

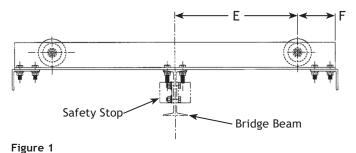


Description

Cignys bridge crane kits provide an economical alternative to factory-built bridge crane assemblies for the handling of heavy loads. Units can be installed on parallel I-beam runways. Bridge crane kits employ the use of cast iron wheels containing sealed precision ball bearings. Safe-T-Lug® type end plates are standard on each end truck, acting as rail sweeps, and preventing the unit from falling in case of wheel failure.







 $G \longrightarrow H$

Figure 2

AWARNING

These bridgecrane kits are neither designed nor intended to be used for the support or transport of people, or for transporting loads over people.

Specifications and Dimensions

Model	Capacity Tons	A	В	С	D	E	F	G	Н	1
50386	1/2	47.75"	36.00"	12.00"	6.12 - 9.48"	18.00"	5.50"	4.00"	3.00"	3.36" MAX
50387	1	47.75	36.00	12.43	6.36 - 9.65	18.00	5.50	5.00	3.50	3.29

General Safety Information

- Make sure moving unit will clear all obstructions (i.e. electrical wires, overhead lights, etc.).
- 2. Check I-beam carefully so that unit can roll smoothly without encountering weld marks, beamirregular-
- ities, or debris which may have accumulated on beam.
- The span-beam must have rigid stops (i.e. safety stops) installed at each end to prevent run-off of hoist and trolley assembly.
- 4. Make certain capacity of hoist does not exceed the rated capacity of the trolley assembly and that the supporting structure has a load rating at least equivalent to the rated capacity of the trolley plus the weight of the hoist.

CIGNYS Bridge Crane Kits

Installation

IMPORTANT - READ THIS FIRST

AWARNING

Do Not load beyond rated capacity.

AWARNING

Do Not use for human transport.

APPLICATION AND USE

Model 50386 (1/2 Ton) can be used to construct bridge cranes ranging up to 1000 lbs. capacity. Model 50387 (1 Ton) bridge crane kits can be used to construct bridge cranes ranging up to 2,000 lbs. capacity. All necessary parts are included in these kits for the construction of the bridge crane units with the exception of the span-beam. Refer to page 5 for replacement parts.

BRIDGE CRANE TRUCK DESIGN

Model 50386 (1/2 Ton) and Model 50387 (1 Ton) bridge crane trucks are designed to fit 4" to 12" American Standard

I-beams (2.663" to 5.252" flange width). Bridge crane trucks are 2-piece angle construction with flanged wheels mounted on the assembly. No shims or spacers are required for units to obtain the correct flange clearance.

Both models use universal tread wheels. Universal tread wheels are of a unique design that can also be used for wide flange beams, patented tracks, and rails having 2.663" to 5.252" flange widths.

SPAN-BEAM DETERMINATION

The size of the I-beam required to provide adequate strength for the span beam depends on the rated load and the length of the span. Refer to Table 1 for the minimum beam size that should be used for various combinations of spans and load ratings.

The span-beam should be at least 8" longer than the span from centerline to centerline of the parallel tracks.

The following chart is to be used in determining the proper size span-beam to meet your overall capacity and span requirements.

▲WARNING

These kits are intended for

industrial use only and should not be used to lift, support, or otherwise transport people, or carry loads over people.

▲ CAUTION

As a safetymeasure, each end of the

span-beam must have a rigid stop installed to prevent run-off of the hoist assembly (See Figures 3-A and 3-B).

NOTE: Chain hoist and trolley included in capacity. Loads are based on ASTM-47 or equal.

Beam weights are per foot of beam.

Multiply weight figure shown by length
(in feet) of span-beam used in
computing total installed weight.

Table 1 — Beam Size (beam height x weight per foot in pounds)

Capacity (lbs.)	10 ft. Span Beam Size	12.5 ft. Span Beam Size	15 ft. Span Beam Size	17.5 ft. Span Beam Size	20 ft. Span Beam Size	22.5 ft. Span Beam Size	25 ft. Span Beam Size	27.5 ft. Span Beam Size	30 ft. Span Beam Size
500	6"x 12.5#	6"x 12.5#	6"x 12.5#	6"x 12.5#	6"x 12.5#	6"x 12.5#	7"x 15.3#	7"x 15.3#	7"x 20.0#
1000	6"x 12.5#	7"x 15.3#	7"x 15.3#	7"x 15.3#	7"x 20.0#	8"x 18.4#	8"x 23.0#	10"x 25.4#	10"x 25.4#
2000	7"x 15.3#	8"x 18.4#	8"x 23.0#	10"x 25.4#	10"x 25.4#	10"x 35.0#	12"x 31.8#	12"x 31.8#	12"x 35.0#

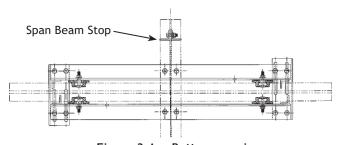


Figure 3-A — Bottom running

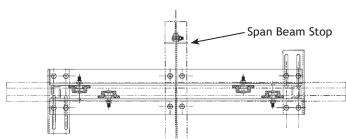


Figure 3-B - Top running

Models 50386 and 50387

Installation (Continued)

PREPARATION

- When installing the bridge crane kit, the first step is to be sure that the runway beams are parallel within 1/8" maximum.
- 2. Caution should be exercised to make certain each parallel track will withstand the capacities you will carry, plus the added weight of the span-beam, bridge unit, hoist, and other accessories. A minimum safety factor of 5:1 should be used in determining if the parallel I-beam will support the intended load. If there is any doubt, a structural engineer should be consulted.

TRUCK POSITIONING

- 1. BOTTOM RUNNING CONFIGURATION. Place the adjustable end truck on one of the parallel I-beams. Wheels are pre-installed in the bottom running position. Loosen the 1/2" bolt located in the slot at the end of the truck. Move the two (2) end truck halves so that there is 1/8" clearance between the wheel flange and the beam flange on each side. Tighten the 1/2" bolt to 85 foot-pounds torque. Repeat procedure for the other end of the truck. The 1/2" bolt must be tight or the truck might come off the beam. Repeat the above procedure on the second end truck included with your kit (See Figure 4).
- TOP/RAIL CONFIGURATION. Remove the wheels from the bottom holes and re-install in top holes for top running configuration. Tighten the

- 1/2" axle bolts to 30 foot-pounds torque. Place the adjustable end truck on the parallel beam/rail. Loosen the 1/2" bolt located in the slot at the end of the truck. Move the two (2) end truck halves so that there is 1/8" clearance between the wheel flanges and the beam flange/rail on each side. Tighten the 1/2" bolt to 85 foot-pounds torque. Repeat procedure for the other end of the truck. The bolt must be tight or the truck might come off the beam. Repeat the above procedure on the second end truck included with your kit (See Figures 5 and 6).
- 3. Position the trucks directly opposite one another on their runways. Be sure each truck is centered on the beam/rail, not riding toward either side. Carefully measure the distance between the eight (8) holes for attaching the span-beam to accept 1/2" diameter grade 5 bolts, which are included in your kit.
- 4. The span-beam should extend four (4)" beyond each end, past the truck width. The span-beam clips (safety stops) that are supplied with the kit must be installed on the span beam to prevent the hoist and trolley from traveling beyond the center of either parallel beam (See Figure 1, Page 1).
- 5. Fasten the beam to the end trucks using the mounting hardware provided (See Figure 1, Page 1). Double check to ensure that the span- beam is perpendicular to the runway beams. Tighten the beam mounting bolts to 85 foot-pounds torque.

6. Have a certified welder weld spanbeam stops to I-beam and weld on each end of the end truck in four (4) places (See Figure 7).

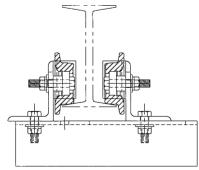


Figure 4 — Bottom running

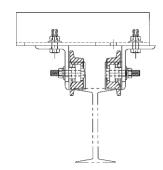


Figure 5 — Top running

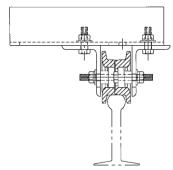


Figure 6 - rail running

CIGNYS Bridge Crane Kits

Installation (Continued)

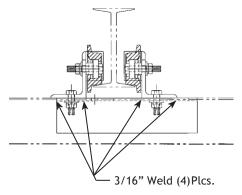


Figure 7 - Weld locations

LOAD RATING

The load rating of the bridge crane should be stenciled on both sides of the span-beam so that it is clearly visible from the floor. The capacity decals provided with the kit are to be used only when the span beam, hoist, and

hoist trolley has the same rated capacity. These decals are to be placed on the side of the end trucks.

The designated load rating of the hoist and trolley should not exceed the rated load of the span-beam (See Table 1, page 2).

Maintenance

INSPECTION OF COMPLETE ASSEMBLY

Before the bridge crane is put into service, the following items must be checked:

- a. Loose nuts or bolts
- b. Trolley wheel wear
- c. Loose or damaged safety stops
- d. Missing or loose retaining rings on trolley wheels

- e. Cracked welds
- f. Distorted end truck sections, beams, or any damaged parts

LUBRICATION

All wheel bearings are permanently lubricated and sealed. No maintenance should be required other than routine visual inspection every three (3) to six (6) months.

CIGNYS WARRANTY STATEMENT

CIGNYS, a corporation duly formed and existing under the laws of the state of Michigan, hereby warrants to the original purchaser only, each new product manufactured and sold by CIGNYS, to be free from defect of material, and workmanship during normal service and use. CIGNYS' obligation and liability herein shall be limited to providing a replacement product for any product which shall be returned by said purchaser within twelve (12) months from the date of purchase to CIGNYS for examination; and only after receiving CIGNYS' written authorization therefore and after which said examination shall reveal the product(s) to have been defective.

CIGNYS IS NOT LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES TO SUCH PURCHASER ARISING OUT OF ANY SUCH DEFECT AND PROVIDES NO OTHER WARRANTY OF FITNESS OR MERCHANTABILITY EITHER EXPRESSED OR IMPLIED.

LIMITATIONS

This warranty shall not apply to any **CIGNYS**' product which has been repaired, modified or altered in any way or which has been subjected to negligent or careless handling or use after leaving **CIGNYS**' custody and control so as in **CIGNYS**' judgement, to have adversely affected the products' performance and reliability, nor to any product which has been used for any purpose for which it has not been designed or intended. No one shall have the authority to modify or expand the terms of this warranty without the express written approval of a duly designated officer of **CIGNYS**.

manufactured by **CIGNYS** 68 Williamson Street Saginaw, MI 48601 U.S.A. 989-753-1411

For Replacement Parts, call 989-753-1411

Please provide the following information:

- Model number
- Part description and number as shown in parts list

Address parts correspondence to:

CIGNYS

68 Williamson Street Saginaw, MI 48601 U.S.A.

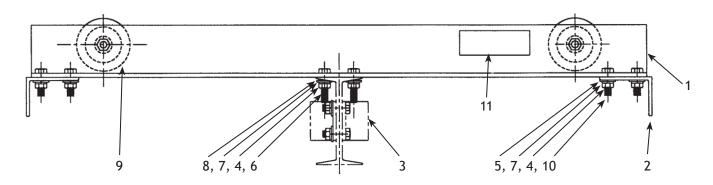


Figure 8 — Parts Illustration

Parts list

Reference number	Description	Part Number Reference	Quantity
1	½ Ton side angle assembly	50397	4
	1 Ton side angle assembly	50398	4
2	Bottom angle	50394	4
3	Safety stop	50393	4
4	1/2 - 13 Hex nut	HFN1/2-13G5ZP	28
5	½" Flat washer	6620-11	28
6	1_{1_2} - 13 x 2 1_4 " Hex head bolt Grade 5	HB1/2-13X21/4G5ZP	8
7	1/2" Lock washer	SLW1/2ZP	28
8	1/2" Tapered washer	91573A034	8
9	Trolley wheel assembly	51342	8
10	1_{1_2} - 13 x 1 3 / ₄ " Hex head bolt Grade 5	HB1/2-13X13/4G5ZP	20
11	¹ / ₂ Ton maximum capacity decal	52043	2
	1 Ton maximum capacity decal	52044	2

Notes	