

FMC invites you to ...

# Meet the "first family" of truck cranes







# Buyers Bonus

A guide to profitable equipment investments

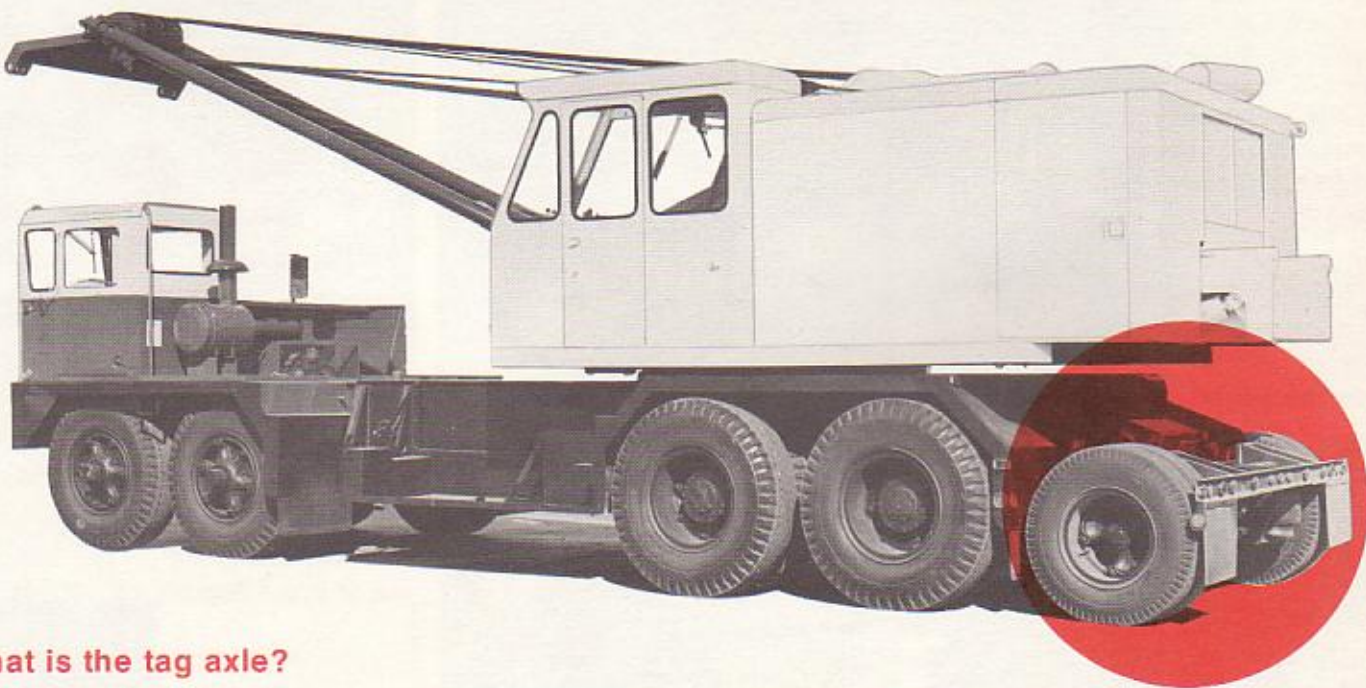
## Tag axle

for Link-Belt® truck crane models HC-108C • HC-138 • HC-218 • HC-238

(HC-258, consult factory)

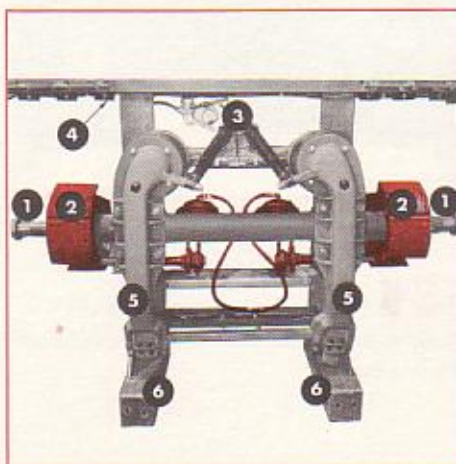
Are you faced with axle load limit problems in job-to-job transportability? Why not consider a third (non-driving) rear tag axle? The tag axle allows greater over-all payload ... may reduce component stripdown ... saves time plus possibly reducing

the need for additional equipment to haul the "stripped off" components to the next job.

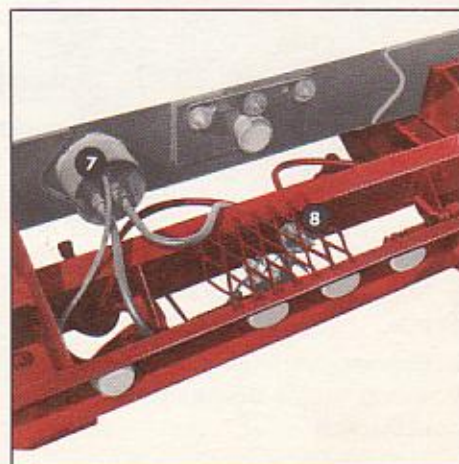


### What is the tag axle?

- 1 Hi-strength tubular axle
- 2 Air service brakes, 16½" x 7"
- 3 Heavy-duty shock absorbers
- 4 ICC approved lights, reflectors, and turn signals
- 5 Heavy-duty axle support arm
- 6 Tag axle mounting frame
- 7 Quick disconnects for air and electrical lines
- 8 Manual air control used to load tag axle
  - 20" cast spoke wheels
  - Four 10:00 x 20, 12-ply tires



Bottom view



Rear view



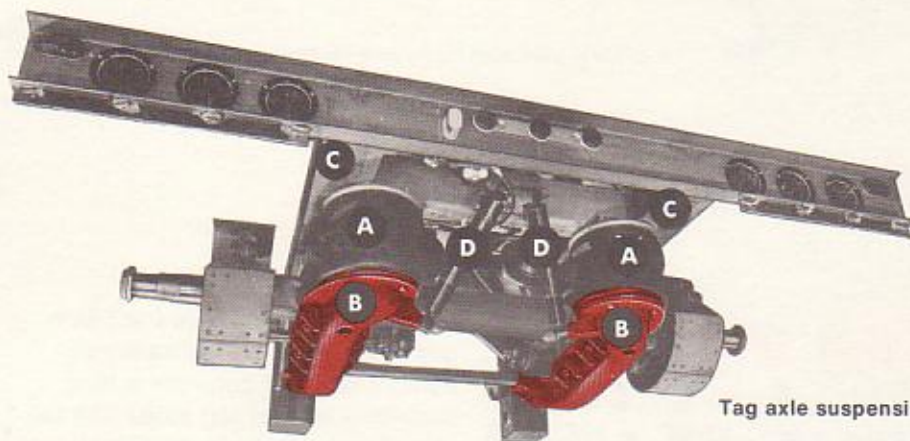
## Tag axle installs easily in just minutes

### How is it suspended?

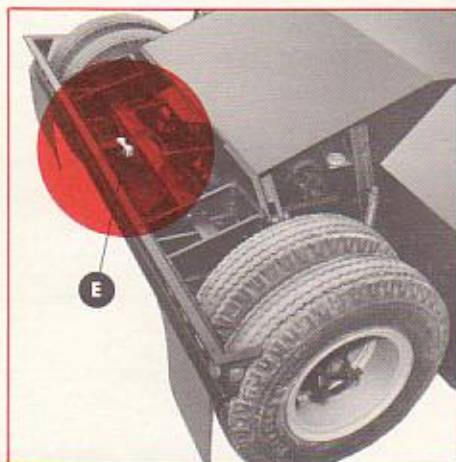
Tag axle suspension is through two air springs (A). Air springs are mounted between the axle support arm (B) and main frame channels (C). Heavy-duty shock absorbers (D) are standard.

### How do you "load" it?

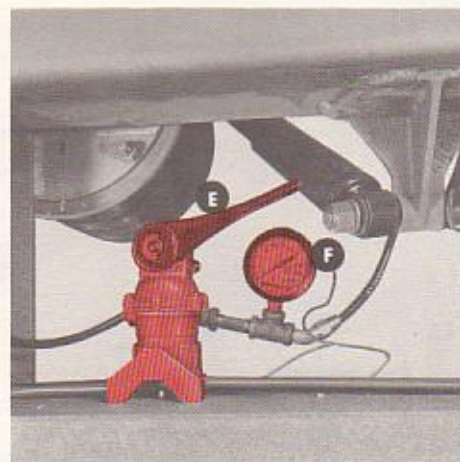
A control valve (E) located at the rear of the tag axle meters air to the air springs (A) for maximum axle loading of up to 15,000 lbs. Air is from the carrier service brake system. When initially "scaling" the truck crane for desired over-all axle loadings, an air gauge (F), located next to control valve (E), serves as a guide to determine the p.s.i. necessary in the air springs for the specific tag axle loading desired.



Tag axle suspension



Control valve



Control valve and air gauge

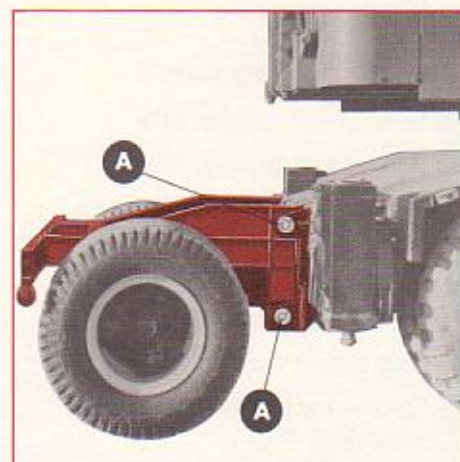
### How is it installed on the HC-108C?



1. Four pins (A) (two on left side not visible) connect tag axle frame to lugs on the rear of the outrigger box.
2. Connect air lines and electrical wiring (quick disconnects are provided).

3. Meter desired air pressure to the air springs.

Rear outrigger box, complete with beams and jacks, remains in place on the carrier.



Tag axle pinned to outrigger box



## How is it installed on the HC-138, HC-218, and HC-238?

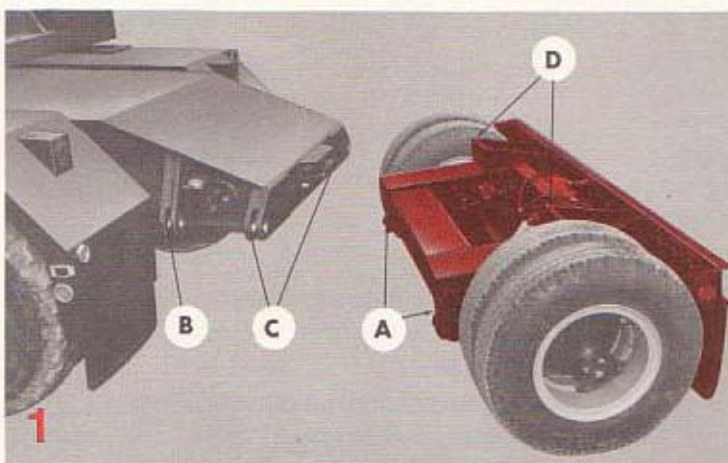


HC-138



HC-218/238

1. Remove the pin-connected rear outrigger assembly. Tag axle is pinned to the rear of the carrier frame. The tag axle frame is designed for mounting under and pin-connected to the rear of the carrier frame.
2. The "T"-bolt assembly (shown right) is anchored to the tag axle frame at position (A) and pin-mounted to the front carrier lugs (B).
3. The tag axle frame at position (D) is pinned to the rear carrier lugs (C).



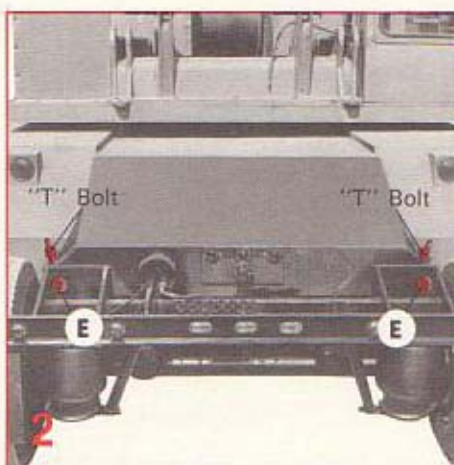
Tag axle pinned to carrier frame



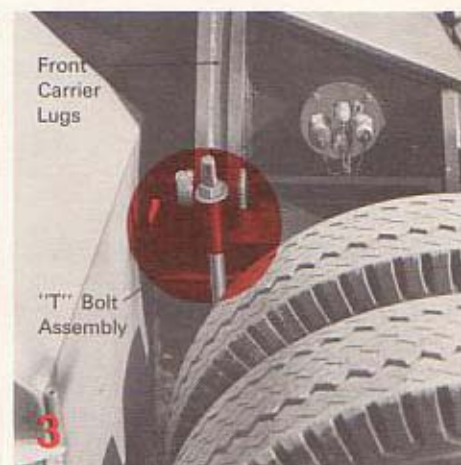
"T"-bolt assembly

Photo #2 shows tag axle pinned in position. Threaded ends of "T"-bolts and pins (E) visible.

Photo #3 shows the "T"-bolt assembly in place. The "T"-bolt is adjustable for "snugging" the tag axle frame to the carrier frame.



Tag axle pinned to carrier



"T"-bolt assembly in position



**Tag axle for Link-Belt® truck crane models**  
**HC-108C • HC-138 • HC-218 • HC-238**

**What are the axle loading results with the tag axle?**

With the addition of a tag axle, the carrier front axle loading is **increased** while the rear axle loading is **decreased**. The amount of increase or decrease depends on the tag axle loading.

The total approximate weight of the tag axle assembly is 3,000 lbs.

**To determine axle loadings for your truck crane is simple:**

1. Refer to the axle loading chart in the truck crane flysheet to determine the total machine weight and axle loadings.
2. Add the tag axle assembly weight of 3,000 lbs. to the total machine weight, and also to the tag axle loading.
3. Refer to the chart below to determine the amount of **increase** and **decrease** to the front and rear axle loadings when the tag axle is set for the maximum load.
4. For the total tag axle loading, add the 3,000# tag axle weight to the tag axle load setting.

Model	Maximum tag axle load	Front axle loading increase (percent of tag axle load)	Rear axle loading decrease (percent of tag axle load)
HC-108C	15,000 lbs.	+50%	-150%
HC-138	15,000 lbs.	+50%	-150%
HC-218	15,000 lbs.	+41%	-141%
HC-238	15,000 lbs.	+35%	-135%

Local restrictions for axle weight distribution may necessitate reducing the tag axle load to less than 15,000 lbs. Determine the front axle and rear axle load distribution for any tag axle loading as follows:

$$\begin{aligned} (\text{Tag axle loading}) \times (\text{front axle loading \% increase}) &= \text{Front axle loading} \\ (\text{Tag axle loading}) \times (\text{rear axle loading \% decrease}) &= \text{Rear axle loading} \end{aligned}$$

**What are the user benefits of the tag axle?**

1. Transfers machine weight to meet local requirements.
2. Permits faster job-to-job transportability.
3. Reduces need for additional hauling of stripped components.
4. Saves cost of labor for not removing components.
5. Adds flexibility to the customer's use of the machine.

For price and availability of the truck crane tag axle contact:

**Transport Trailers, Inc.**  
**Cedar Rapids, Iowa 52402**  
**Phone: (319) 365-1481**

We are constantly improving our products and therefore reserve the right to change designs and specifications.

**FMC Corporation Crane and Excavator Division World Headquarters Cedar Rapids Iowa 52406**  
Plants in: Cedar Rapids Iowa (2) • Lexington & Bowling Green Kentucky • Ontario Canada • Milan Italy • Queretaro Mexico & Nagoya Japan (under license)