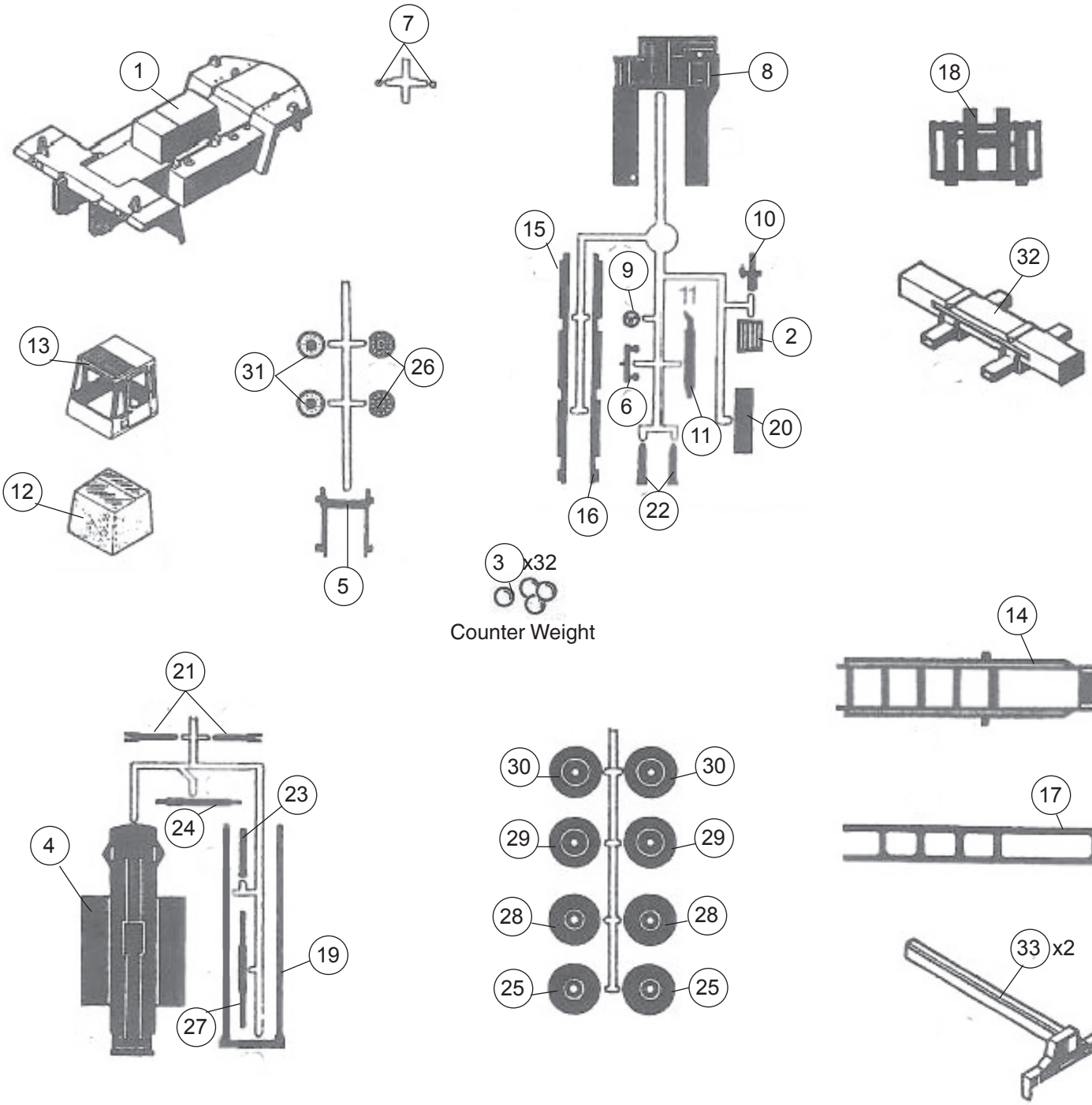
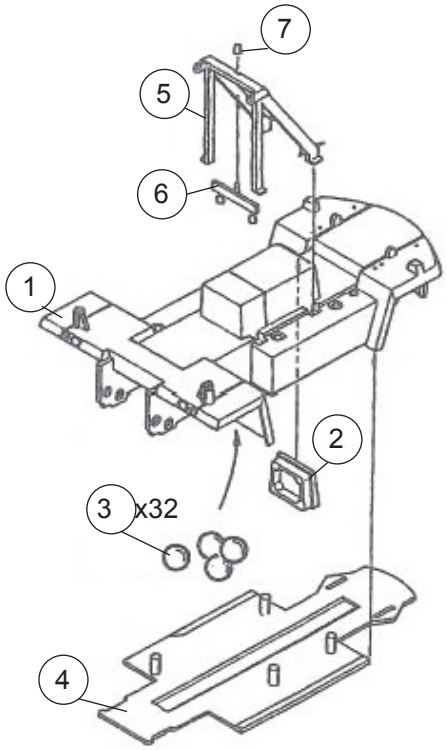
HO Structure Kit
KALMAR CONTAINER CRANE
933-3109

Thanks for purchasing this Cornerstone kit. All parts are styrene plastic, so use compatible glue and paint to finish your model. Please read the directions and study the drawings before starting construction. PLEASE NOTE: If you wish to paint your model it's easiest before starting construction. Some parts in this model are positionable and should not be glued.

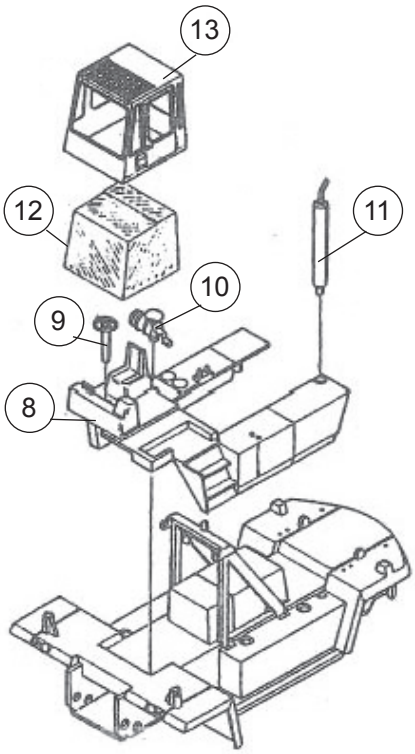
Moving on tight schedules, speed is essential to modern intermodal traffic, and a wide range of mobile equipment handles both trailers and containers at each terminal. Many are served by mobile cranes resembling a giant forklift that work from either side of a train, lifting a typical trailer or container in about one minute! Your new model is based on a prototype built by Kalmar, found in terminals big and small around the world. With careful assembly, many parts can be positioned to simulate a working crane. Decals are provided for a variety of owners, but you can also use an N Scale herald from another set to model a different railroad. Check out the current Walthers HO Scale Model Railroad Reference Book, or visit us online at walthersscornerstone.com for additional ideas to detail and expand your intermodal operations!



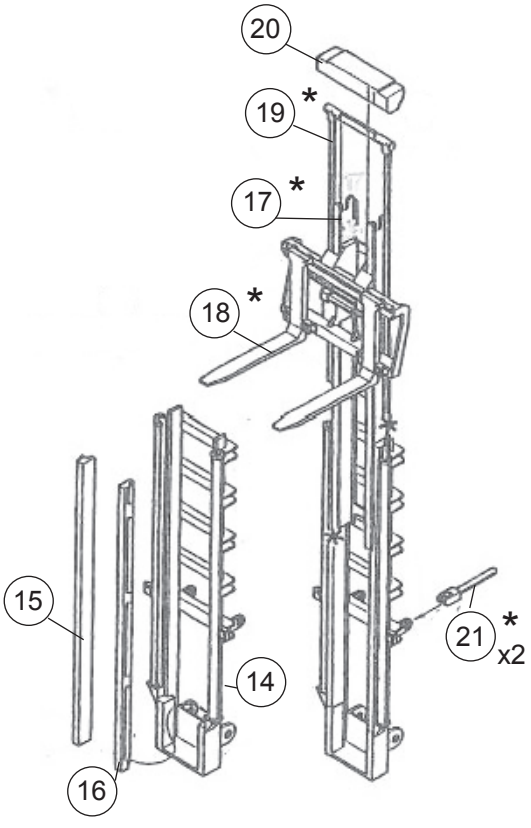


1) Insert Radiator Grille (2) into rear of engine compartment on Body (1). Glue Metal counterweights (32x 3) to Underframe (1) using a CA or water-based contact cement (sold separately). Glue Underframe to Body. Insert Roll-Over Protective Structure (ROPS 5) to Body and glue from inside. Insert Light Bar (6) in ROPS and glue in place. Glue Warning Lamp (7) to locater pin on Light Bar.

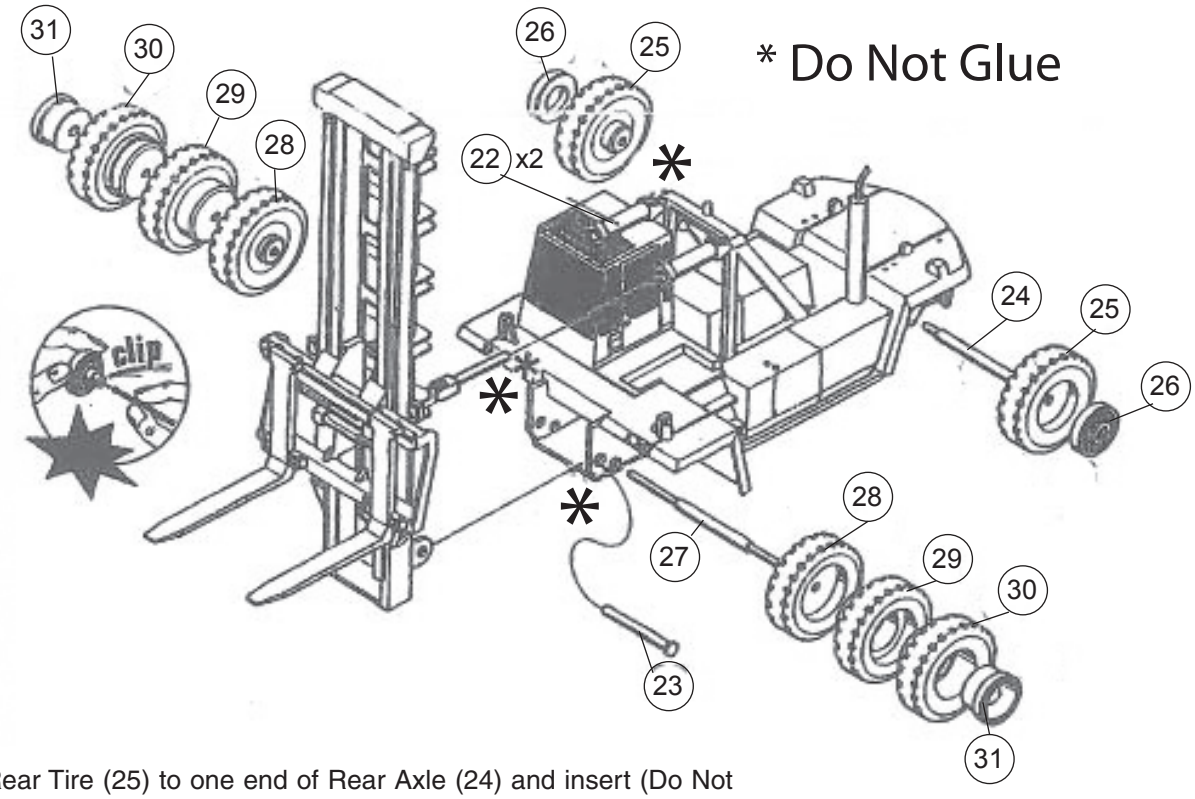
2) Glue Cab Interior/Cowling (8) to Body. Glue Steering Wheel (9) to locater in Cab Interior. Glue Air Cleaner (10) to locater behind seat on cowling. Glue Exhaust Stack (11) to locater on rear right of cowling. Insert Cab “Glass” (12) to Cab (13) and glue completed Cab to Interior.



***Do Not Glue**



3) Note the raised ridges on the inside edges of Left (15) and Right (16) Frame Inserts; the small blank panel is the bottom. Align the Frame Inserts on the inside edge of the round cylinders on the Fork-lift Frame (14): make sure each Insert top (smallest raised ridge) is flush with the top of the Frame and glue in place. Make sure openings on Fork Guide Rail (17) are at the top and insert (Do Not Glue!) to Forklift Frame. Insert (Do Not Glue!) Lifting Forks (18) to Fork Guide Rail. Insert (Do Not Glue!) Hydraulic Ram (19) to cylinders on outside edge of Forklift Frame; note the raised areas on the cross arm of the ram fit between open areas on Fork Guide Rail; glue cross arm to Fork Guide Rail at inside locations. Note the open portion of Guide Rail Cap (20) is the rear; also note the raised ridges on the inside of the Cap and glue to top of Fork Guide Rail.

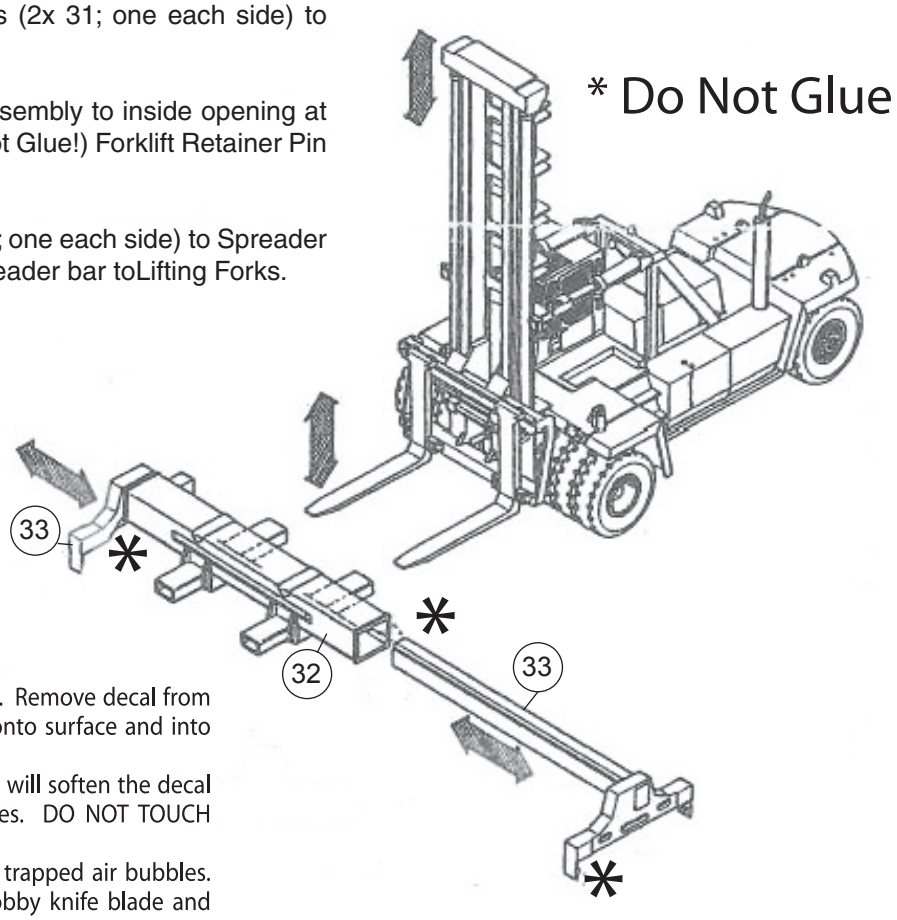


4) Glue a Rear Tire (25) to one end of Rear Axle (24) and insert (Do Not Glue!) through Body. Glue Rear Tire to opposite side of axle. Glue Rear Wheel Hubs (2x 26; one each side) to Rear Tires as shown.

5) Make two (2) front tire assemblies as follows: GlueMiddle Front Tire (29 with extended mounting boss on rear) to Inside Front Tire (28) as shown. Glue Outside Front Tire (30 with extended mounting boss on rear) to Inside Middle Tire (29). Glue Completed Tire Assembly to one end of Front Axle (27). Insert (Do Not Glue) Axle through front of Body. Repeat Tire assembly for other end of axle. Glue Front Wheel Hubs (2x 31; one each side) to Outside Front Tires as shown.

6) Insert (Do Not Glue!) completed Forklift Assembly to inside opening at front of Body. Align openings and insert (Do Not Glue!) Forklift Retainer Pin (23 through all openings.

7) Insert (Do Not Glue!) Spreader Arms (2x 33; one each side) to Spreader Bar (32). Insert (Do Not Glue!) completed Spreader bar toLifting Forks.



Applying Decals

1. Cut out the decal and dip in water for 10 seconds. Remove decal from water and let stand for 1 minute. Slide decal onto surface and into position. Blot off any excess water.
2. Lightly brush Micro Sol® on top of the decal. This will soften the decal allowing it to conform to any irregular surfaces. DO NOT TOUCH DECAL while wet!
3. When the decal is thoroughtly dry, check for any trapped air bubbles. Prick them with the point of a small pin or hobby knife blade and apply more Micro Sol®.