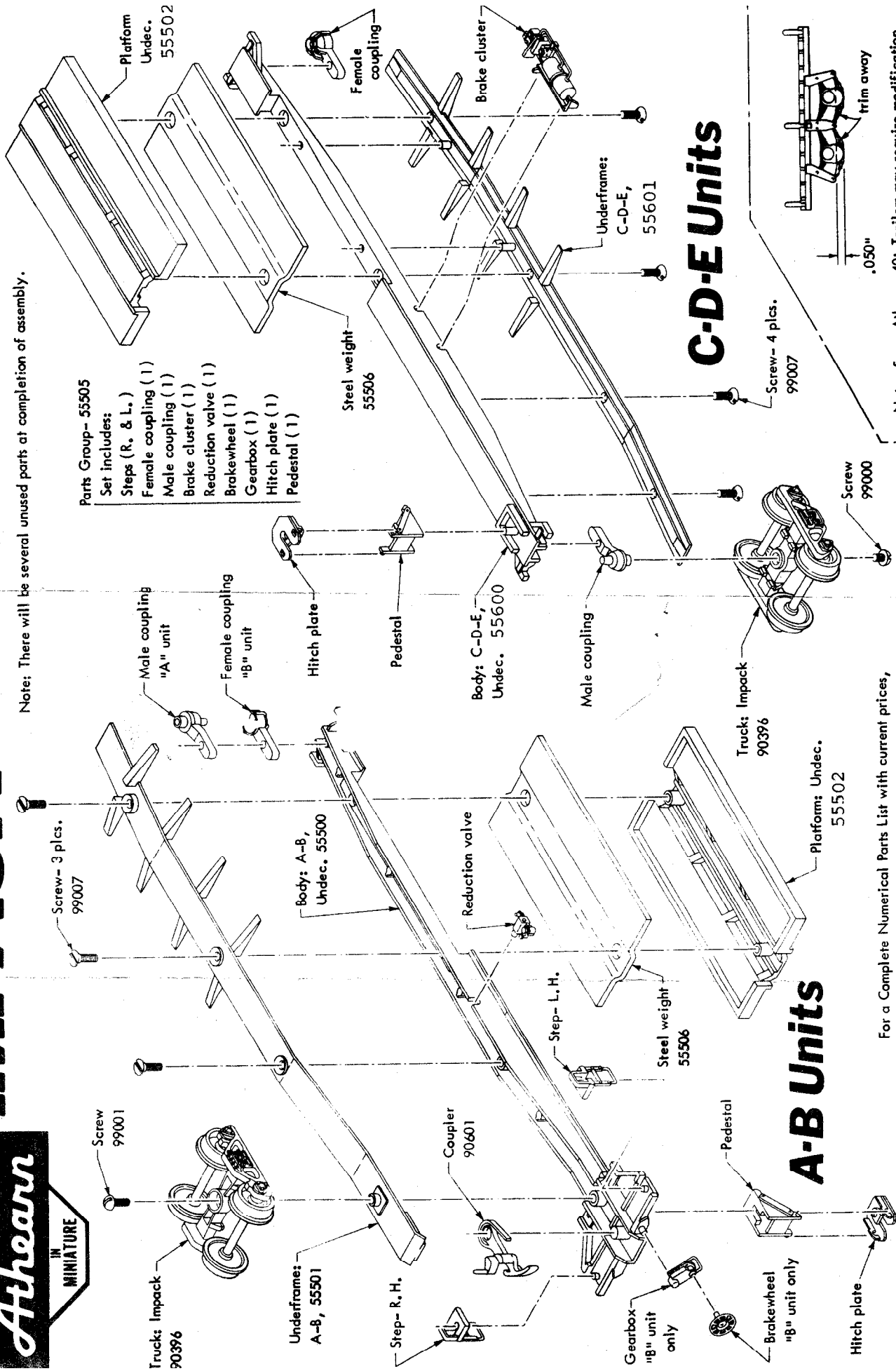


# IMPACT™ Articulated Piggyback Cars

Note: There will be several unused parts at completion of assembly.



- Parts Group- 55505  
 Set includes:  
 Steps (R. & L.)  
 Female coupling (1)  
 Male coupling (1)  
 Brake cluster (1)  
 Reduction valve (1)  
 Brake wheel (1)  
 Gearbox (1)  
 Hitch plate (1)  
 Pedestal (1)

Screw- 3 pcs.  
99007

Screw  
99001

Truck: Impact  
90396

Underframes-  
A-B, 55501

Step- R. H.

Coupler  
90601

Step- L. H.

Gearbox  
"8" unit  
only

Brake wheel  
"8" unit only

Hitch plate

Body: A-B,  
Undec. 55500

Body: C-D-E,  
Undec. 55600

Male coupling

Trucks: Impact  
90396

Platform: Undec.  
55502

Steel weight  
55506

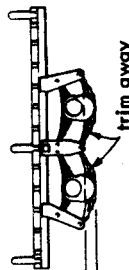
Underframe:  
C-D-E,  
55601

## C-D-E Units

Screw- 4 pcs.  
99007

Screw  
99000

.050"



## A-B Units

For a Complete Numerical Parts List with current prices,

send a large S.A.E. to

Athem Inc. 19010 Laurel Park Road Compton, Ca. 90220

L.J.M.  
10-190

Note: Some Athem 40" Trailers may require modification of bogies (as above) to avoid interference with center sill.

# Assembly Instructions;

Carefully remove parts from runners and trim any remaining "gates" with a sharp knife. While most parts are designed to snap or press together, cementing is recommended for permanence. Use a liquid styrene cement applied sparingly to avoid harm to painted surfaces. Allow adequate drying time before handling. It is also suggested that all screw bosses be pre-threaded with a #2-56 Bottoming Tap to assure ease of assembly.

### "A" and "B" Units (End Units)

- 1.) Position Reduction Valves on Bodies as indicated, and cement from inside sill.
- 2.) Mount Steps, right and left hands, to undersides of end platforms as shown and cement in place.
- 3.) Cement Brakewheel to Gearbox. Locate Brakewheel/Gearbox assembly onto either body as indicated and cement as necessary. Thus equipped, this body becomes the "B" Unit.
- 4.) Position a Female Coupling on mounting post inside "B" Unit sill and cement in place. Ensure that coupling is level and square to body. Similarly, mount a Male Coupling to the "A" Unit box.

### "C", "D", and "E" Units (Intermediate Units)

- 5.) Position Brake Clusters on Bodies as shown and cement in place.
- 6.) Locate Male and Female Couplings on opposite ends of Bodies as indicated, and cement in place. Again, ensure that couplings are mounted squarely and levely.

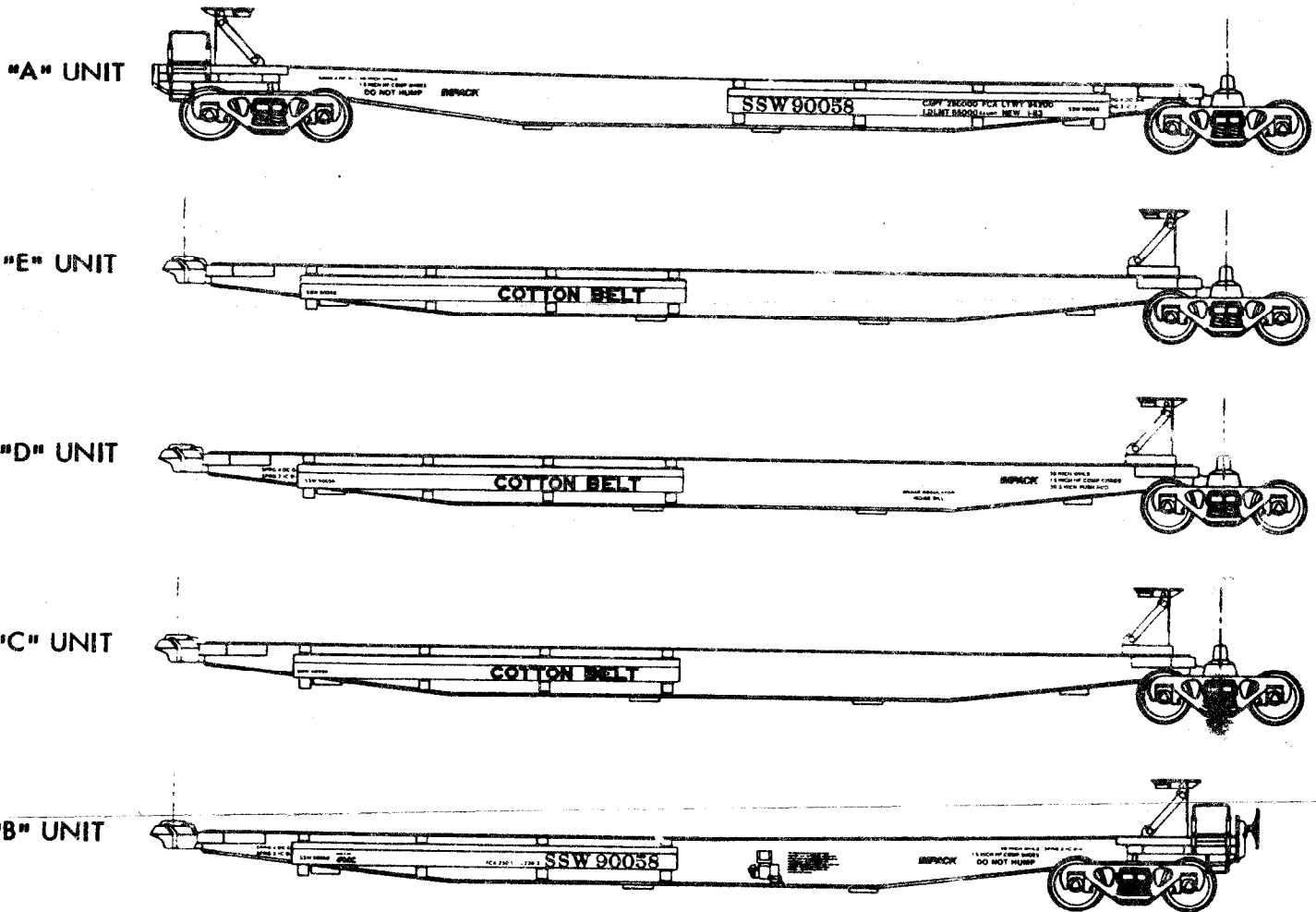
### All Units

- 7.) Snap Hitch Plates onto Pedestals and cement assemblies to Bodies.
- 8.) Position Steel Weights in undersides of Platforms and, referring to "Lettering Arrangement" diagrams for correlation, mount the appropriate Platform and Weight to each Body. Do Not Cement.
- 9.) Locate the appropriate Underframe on each unit, and secure with #2-56 x 1/4" Flat-head Screws as indicated.
- 10.) Slip Couplers into position in outboard ends of "A" and "B" Units. Mount Trucks to outboard ends of "A" and "B" Units, and secure with #2-56 x 3/16" Round-head Screws. Fully tighten screws, then loosen 1/4 to 1/2 turn to ensure free rotation and equalization.
- 11.) Mount Trucks to Male Couplings (4 places), and secure as above with #2-56 x 1/8" Round-head Screws.
- 12.) Refer to schematic below for operating configuration of units.

### Operating Notes:

The "IMPACK" system is designed to haul 40' and 45' trailers in three to ten-unit sets. When loaded with trailers, these cars should operate nicely on any reasonably well-laid track with radii down to 100'. Like the prototype, however, when running light (unloaded) they become highly critical of track quality and of their position in-train, due to lack of mass. The modeler may therefore find it necessary to add weight and/or to operate light cars near end-of-train as dictated by conditions on his pike.

## Lettering Arrangement; "COTTON BELT" + "IMPACK" - Articulated Piggyback Flat Cars



## Configuration;

