

Monster Manifest's

Be sure to check for proper placement on these monster manifests. Below are the items you need to check. First, that the dup's are cut in at the proper location using the formula, and second, that the 'restricted tonnage' ahead of the dup's does not contain any cars that should not be there. The most common are highlighted below. The 'restricted tonnage' is much greater than with dup's at the rear. See 'Restricted Tonnage Table' on subdivision page. Also, if you s/o or p/u, the location of the cut-in dup's may have to be changed. Re-check the formula using the new tonnage. The 5 car leeway forward or back, only applies when the placement conflicts with makeup restrictions, not when tonnage has changed due to p/u's or s/o's.

32.12.7: Helper Placement

A. Rear or Cut-in Requirement for Helper

Use the following applicable table to determine whether a helper is placed on rear of train or at cut-in position on train.

Helper Restrictions, Any Train	
Any Helper	Must be placed ahead of: <ol style="list-style-type: none"> 1. Rail pick-up cars RGAX 4694-4696; 2. Two-axle scale test car; 3. Car designated 'Rear End Only' or 'Rear Rider'; 4. Occupied caboose; 5. Single platform two-axle car in series TTOX; 6. Solid drawbar-connected three platform cars in series FEC 7. 60000-60199. 8. Solid drawbar-connected five platform cars in series CN 9. 677000-677139. 10. Solid-drawbar gondola AMGX cars with symbol 2-P.
Other Than a Loaded or Empty Bulk Commodity Unit Train –(Manifest)	
HELPER EPA	Placement Requirement
10 or less	May be on the rear.
11 to 20	Restriction A: Placed on rear: <ol style="list-style-type: none"> 1. A solid drawbar-connected multi-platform car having one or more empty platforms. 2. An articulated multi-platform car having an empty well / platform on either end or two consecutive empty wells / platforms. 3. A car 45 feet or less in length coupled to a car that weighs less than 60 tons and is 80 feet or longer in length. 4. An intermodal flatcar 85 feet or longer in length loaded with a single trailer/container.

	Note: This also applies to two unit, solid drawbar-connected, twin flatcars with only a single trailer/container on either or both platforms. Helper may be cut-in to a location that will permit complying with the above requirement. Part B below will not apply.
21 to 23	Restriction B: Placed on rear. Comply with items 1 through 4 as outlined in Restriction A above and the following: 5. Car weighing less than 45 tons. Helper may be cut-in to a location that will permit complying with the above requirement. Part B below will not apply.
24 to 36	Restriction C: Must be cut-in as outlined in Part B below. Make up restriction same as Restriction B above.

B. Tonnage Placement for Cut-in Helper

When the following tonnage placement requirement conflicts with makeup restrictions in the “Other Than a Loaded or Empty Bulk Commodity Unit Train” table, a cut-in helper may be moved up to five cars or platform/wells ahead or behind the calculated position to comply with this Part.

Position Requirements for one cut-in Helper.

To determine the placement of one helper, divide the total tonnage of the train by the EPA of both the helper and the lead consists. Multiply that number by ½ the EPA of the helper. This number is the tonnage to be placed behind the helper

(Tonnage of train) ----- (Total EPA of Helper and lead consists)	X	(½ EPA of Helper)	=	(Tonnage to be placed behind Helper)
Example: Lead Consist: Helper: Total		115-0-16445 tons 2 C44AC - (24 EPA) 2 C44AC - (24 EPA) ----- 48 EPA		

16445 tons

----- x (12) = 4111 (Tonnage to be placed behind helper)