

QWIK TECH TIPS

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Recommended Cable Support Installation for Combination Assembly

Combination air and electrical assemblies consist of a straight 7-way electrical cable, two straight rubber air lines, and sometimes a straight liftgate or auxiliary cable, wrapped up together into one unit, typically with spiral wrap. If supported properly between the tractor and trailer, they can become virtually hassle free.

Proper Support and Installation

Combination air and electrical assemblies are heavier than their coiled counterparts, requiring a thicker gauge spring in the tender spring kit to accommodate for the additional weight. While it may be typical to see these types of assemblies supported with a sliding tracker bar and one tender spring kit, the best way to support a combination assembly, is to use two tender spring kits with heavy gauge springs. Over time, the spring in one tender spring kit will begin to stretch out allowing the combination assembly to sag and drag on the deck plate. Using two tender spring kits offers better support and spring retention to avoid damage and CSA violations from sag and drag.

The following steps offer general guidelines for installing a combination assembly with two tender spring kits.

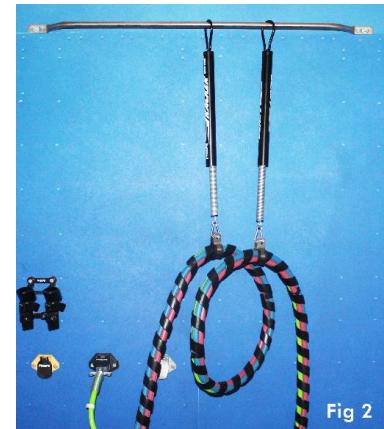
Note: Cable clamp placement will vary based on the location of the connections on the back of the tractor and the vehicle's application.

1. Hang both tender spring kits roughly in the middle of the tracker bar. Fig. 1
2. With the combo assembly connections coupled to the tractor, attach the assembly where it meets the cable clamp on the first tender spring kit (on the left), in a neutral state, not too tight, not too loose. Fig 1

3. Take the remaining cable and wrap it in a circle, clockwise, towards the passenger side of the cab to create a coiled effect. The diameter of this coil will vary in size based on what suits the tractor/trailer's application best, however, about two feet in diameter, give or take, will be most accommodating. Fig 2

4. Attach the second tender spring kit's cable clamp at the top of this coil where the clamp and assembly meet. Couple the connections to the trailer side. Fig 2

Note: When attaching the 2nd tender spring kit, be sure the cable clamp is placed to keep the assembly off the deck plate but does not over stretch the spring when making sharp turns. Adjustments may need to be made accordingly by increasing or decreasing the size of the coil.



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TIPS

- Over time, the spring in one tender spring kit will begin to stretch out allowing the combination assembly to sag and drag on the deck plate. Using two tender spring kits offers better support and spring retention to avoid damage and CSA violations from sag and drag.
- When installing the cable clamp, do not over tighten. This helps avoid possible pinching of the lines, which can cause damage such as chaffing.
- Always be sure to attached the cable clamp to the assembly so that the nut is facing away from the back of the tractor to help avoid damage to the back of the cab.

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