



Industrial Brake & Friction

HYDRASTAR
HBA-CAM

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CONTROLLER ADAPTOR MODULE

Controller adaptor module for 2005-2007 Ford Tow Command and Tekonsha Prodigy Controllers.

The Ford Tow Command option found on 2005-2007 F-250/350 pickups and Tekonsha Prodigy and sentinel controllers were not compatible with the Carlisle HydraStar trailer brake actuator. Using these controllers with the HydraStar resulted in false error signals from the controllers and “clicking” from the HydraStar. Both of these problems were the result of the electrical verification pulses sent out by the controller. When the pulses hit the HydraStar instead of the electric brakes on a trailer, it issued an error code. The pulse also momentarily turned on the HydraStar’s motor, creating the “clicking” noise. This start/stop off the motor could damage the HydraStar.

The HBA-CAM splices into the HydraStar’s wiring on the trailer and can be mounted anywhere it is convenient. The module intercepts the verification signals and electronically answers them showing everything to be normal. The error codes are eliminated* and the HydraStar motor “clicking” stops. The braking performance of either controller is not changed by the HBA-CAM. The HBA-CAM is not recommended for use with other manufacturer’s brake actuators that exhibit similar symptoms. The HBA-CAM should only be used with GEN5** or later Carlisle HydraStar actuators.



IMPORTANT NOTE:

The HBA-CAM is intended only for use with the GEN5** or later Carlisle HydraStar products. Wiring the HBA-CAM or higher to an older version HydraStar will damage the HBA-CAM.

The HydraStar has 4 wires and a bleeder fitting on top. If your HydraStar does not have these features, do not attach the HBA-

* Under laboratory testing it was possible to make the 2005 Ford Tow Command produce error codes even with the HBA-CAM installed. With the gain set at 2 or less, and rapidly cycling the manual braking switch for a minute or more, error codes could be seen. It is important to note that it is inconceivable that this condition would occur in normal vehicle and brake operation.

** GEN5 HydraStar actuators were manufactured between 2003-2006. You may identify a GEN5 unit by the serial number located on the HydraStar label. Later models can be identified by serial number.

Gen 5	
Model	Serial Number
HBA-10	300100 to 313799
HBA-12	700100 to 705699
HBA-16	500100 to 506099

Gen 6 or Later	
Model	Serial Number
HBA-10	313800 or higher
HBA-12	705700 or higher
HBA-16	506100 or higher

- Simply splice in the HBA-CAM four wires and mount the module in a convenient place
- The unit comes with complete instructions
- Sealed in an anodized aluminum case, the HBA-CAM is weather and shock resistant
- Carlisle Two Year Warranty