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Hydraulic Over Air  
Brake Controller

# Hydraulic Over Air Brake Controller

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## **Hydraulic Over Air Brake Controller**

But the best way to ensure roadway safety and avoid towing related accidents is to equip your vehicle with

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quality trailer air brake controllers. Air brake controllers are devices that can be installed in the cab of your truck and will activate your trailer's electric or electric-over-hydraulic brakes whenever you have to hit the brakes during your drive.

## **Air Actuated Electric Trailer Brake**

### **Controller | Hayes ...**

Curt Venturer Trailer Brake Controller - 1 to

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3 Axles - Time Delayed. Electronic controller activates electric or electric-over-hydraulic trailer brakes with a preset intensity when you apply the brakes in your vehicle. Power output and braking aggressiveness are adjustable. Includes LED display and manual override.

**Electric over  
Hydraulic Trailer  
Brake Controller ...**

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For your 2009 International 4300 with air brakes you will use the Hayes Air Actuated Trailer Brake Controller - 1 to 4 Axles - Proportional # HA100400C and then the HydraStar Electric Over Hydraulic Actuator for Disc Brakes - 1,600 psi # HBA16 or if you have drum brakes # HBA-12.

**Hayes Air Actuated  
Trailer Brake**

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## **Controller - 1 to 4 Axles ...**

Hydraulic-over-air relay valves convert hydraulic modulated input pressure to proportional output air pressure in on- and off-highway applications. A common use would be to control an air-braked trailer with a hydraulically braked towing vehicle that has an air power source. A hydraulic vehicle component, such as a

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master cylinder or hydraulic control valve, delivers a given hydraulic input pressure, which sends a pilot signal to the relay valve to modulate air-brake pressure on the other end.

## **Oil-over-air valves | Hydraulics & Pneumatics**

These brake controllers can come equipped with digital displays,



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diagnostics, direct plug in, and self adjustment. The forth and newest style is the hydraulic over electric controls. Mini computers that convert hydraulic and brake pedal pressure into electrical current. These controls will be equipped to handle any condition.

## **Brake Controllers at BrakeController.com**

Electronic controller  
activates electric or

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electric-over-hydraulic trailer brakes with a preset intensity when you apply the brakes in your vehicle. Power output and braking aggressiveness are adjustable. Includes LED display and manual override.

## **Trailer Brake Controller | etrailer.com**

A typical air-over-hydraulic brake system (A/T—automatic

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transmission and  
M/T—manual  
transmission) Location  
of one type of load  
proportioning valve.

## **Hydraulic Brakes and Air-Over- Hydraulic Brake Systems**

The first Hayes trailer  
brake controller was  
invented by The Kelsey  
Hayes Company in  
Detroit Michigan in the  
1950's. These original  
trailer brake controllers

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were hydraulic over electric and required a direct tie in to the tow vehicle's air or hydraulic braking system.

## **Proportional Electric Brake Controller**

**Company | Hayes ...**

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## **hydraulic-over-air- brake-controller**

There are 2 ways to sync the brakes between trailer and truck. One is by using pressure valve in the brake line that senses the hydraulic pressure and opens the air brake line accordingly. The second way is to tie into the anti-lock brake computer of the

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truck using the CAN BUS data on newer trucks.

## **Air Brake Trailer behind a hydraulic brake truck? | Pirate 4x4**

Electric over Hydraulic. Manual Leveling. Under-Dash Box. Dash Mount. Up to 4 Axles. 360 Degrees. Hayes. This air-actuated brake controller senses the amount of pressure that you apply to your

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vehicle's air brakes and then smoothly applies your trailer brakes proportionately. More Information >.

## **Air to Electric Trailer Brake Controller | etrailer.com**

MaxBrake hydraulic over electric is a simple install, just one wire cable goes through the fire wall from the hydraulic sensor to the controller. The power supply is inside the

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cab. Don't let bleeding the trucks brake fluid scare you. It's just a couple of drops on the supplied "T" connection.

**"Max Brake, the best trailer brake controller,hydraulic**

...

Brake Controllers &  
Trailer Sway  
Correction. Designed  
and developed by  
Hayes Towing  
Electronics/Syncro



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Corporation engineering with assistance from Auburn University and outside automotive car and truck vehicle stability control engineers, the SwayMaster® is designed to provide simultaneous braking when sway is detected to all trailer brakes on 1 to 4 axle trailers.

**Trailer Brake  
Controllers | Sway  
Control | Hayes**

# File Type PDF Hydraulic Over Air Brake Controller **Towing ...**

The truck has hydraulic brakes, but has an electric brake controller. I wasn't sure if the "add-on" air brake controller would be fed from the 7 pin plug which is controlled by the electric controller, or configured directly from the trucks hydraulic brakes (in parallel with the electric controller).

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## **Adapting Electric Brake Controller to Air Brakes | labusas.oRg**

The air actuated electric trailer brake controller provides smooth brake actuation. The electric brakes on the trailer operate off of the air brake system of the tow vehicle. When the brake pedal is depressed, the application of the electric trailer brakes is

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proportional to the vehicle's brake pedal pressure.

## **Air Over Electric Brake Controllers**

There are three main parts to electric over hydraulic brake installation: brake controller in the truck, the electric over hydraulic brake actuator on the trailer, and the hydraulic disc brakes on the wheels of the trailer. Of

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course, there are wiring and pressure lines that are needed to connect these components.

## **Basics Electric Over Hydraulic Brake Conversion ...**

Kits are furnished complete with control valves, air tank, air / hydraulic actuator, air hose and hydraulic brake line kit. Features.  
8500 Series

Air/Hydraulic Trailer Kit

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includes: 1--1600 PSI  
Booster Pump 1-- Air  
tank 2,850 cubic inch  
2-- Vibration rubber  
mounts for air tank 4--  
Tank Mounting bolts  
w/hardware 1-- Air tank  
drainage cock

## **Air / Hydraulic and Vacuum / Hydraulic Kits**

A brake controller is usually an OEM or aftermarket installed device or module. A brake controller is not

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needed with a trailer surge braking system unless using modern electric over hydraulic devices. The trailer in this case usually has either electric friction brakes or electric-hydraulic trailer brake actuators.

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