



TH SERIES AIR / HYDRAULIC BRAKE SYSTEM with ABS

A typical Air-over-Hydraulic (A/H) Anti-Lock Brake System (ABS) consists of wheel speed sensors, an ABS relay valve, an integral Electronic Control Unit (ECU) and an A/H booster. The ECU monitors wheel speeds through the use of two wheel speed sensors mounted on the hubs of the trailer axle. An exciter, also referred to as a tone ring, is a required component of the wheel speed sensing system and is usually included on the axle as received from the axle manufacturer.

When the ECU detects that a sensed wheel has locked up during brake application, the air pressure in the brake chamber on the A/H booster is reduced via the ABS relay valve, allowing the wheel to recover. The ECU then commands the ABS relay valve to apply additional pressure until maximum braking potential is produced. This ABS "cycle" is repeated approximately five times per second as required, or until the trailer is traveling at less than 6 MPH.

The TH series of Air-over-Hydraulic ABS trailer brake systems can be purchased in the following configurations:

1. **TH-6000 Series** - this system is designed to conform to all current FMVSS 571.121 regulations for air-over-hydraulic trailer brake systems. However, it is the trailer manufacturer's responsibility to certify that their trailer meets these regulations.
2. **TH-5000 Series** - this system does not meet all FMVSS regulations. Specifically, although ABS braking is provided, provisions are not made for the automatic application of mechanical parking brakes.

Features

- Each kit furnished complete with control valves, air tank, air/hydraulic actuator, air hose and hydraulic brake line kit
- Custom Kits are Available



AIR / HYDRAULIC BRAKE SYSTEM with ABS TH-5000 & TH-6000

The following table summarizes the most common TH-5000 and TH-6000 series Air/Hydraulic ABS kits.

Part Number	No. of Axles	Suspension	Pressure
TH-6100	-	actuating kit	1000 psi
TH-6102	2	spring	1000 psi
TH-6102T	2	torsion	1000 psi
TH-6103	3	spring	1000 psi
TH-6103T	3	torsion	1000 psi
TH-5100	-	actuating kit	1000 psi
TH-5083	3	spring	800 psi
TH-5102	2	spring	1000 psi
TH-5102T	2	torsion	1000 psi
TH-5103	3	spring	1000 psi
TH-5103T	3	torsion	1000 psi
TH-5123T	3	torsion	1200 psi



