

Haldex Brake Products

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(www.haldex.com)

(See www.haldex.com for additional
ABS Product Technical Information)

Brake Monitoring System (BMS-1)



Main Functions:

- Warns Driver of Potential Brake Drag (Service or Spring).
- Warns Driver of Incorrect Gladhand Connections.
- Warns Driver of Closed Gladhand Shut-Off Valves.
- Warns Driver of Air System Leaks on Emergency Line.
- Warns Driver of Air System Leaks on Service Line.
- Warns Driver of False Charging of Trailer and Dolly.
- Warns Driver of No Stoplight Power.

Service Kits

(Front View)



Complete Brake Monitoring System (BMS-1)
Aftermarket Part Number AL95693



(Front View)

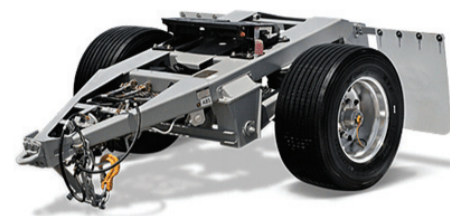


(Rear View)

Replacement Cover Assembly includes
Pressure Switches, Cover, and Air Fittings.
Service Part Number A30063438

Contact your local Haldex Distributor

Dolly



Air System Test

Step 1: Verify Dolly Air System is functioning correctly.

- Charge Emergency (IN) gladhand (90-120 PSI).
 - Service Chambers should release.
 - Air Reservoir Tank should fill.
 - Air Bags should inflate after approx. 20 seconds.

- Check and correct any Emergency air leaks.

- Charge Service (IN) gladhand (90-120 PSI).

- Service Chambers should apply.
- Release Service gladhand pressure and brakes should release.

- Check and correct any Service air leaks.

- Release Emergency (IN) gladhand pressure.

- Service Chambers should park.

Step 2: Verify Dolly ABS Power.

- Apply 12 volts to the Blue ABS Pin # 7 on the 7-Way and verify the external mounted Dolly ABS Warning Lamp goes (ON-OFF). The ABS system is (OK).

- If the Dolly ABS Lamp stays (ON) solid, an ABS fault is present Ref. the ABS Installation/Service Guide L30041.

- Turn (OFF) Blue ABS Power.

Step 3: Verify Dolly Stoplight Power.

- Apply 12 volts to the Stoplight Pin # 4 on the 7-Way and verify external mounted Dolly ABS Warning Lamp goes (ON-OFF). The ABS system is (OK).

- If the Dolly ABS Lamp stays (ON) solid, an ABS fault is present. Ref. the ABS Installation/Service Guide L30041.

- Turn (OFF) Red Stoplight Power.

Functional Test for Brake Monitoring System (BMS-1)

Note: All Power and Air Pressure must be removed prior to start of this test.

Step 1: Apply 12 volts to the Blue ABS Pin # 7 on the 7-Way.

- The Brake Monitoring System (BMS-1) alarm will sound after 15 seconds.

Step 2: Charge the Red (In) Emergency Gladhand to (90-120 PSI).

- The Brake Monitoring System (BMS-1) alarm will shut-off.

Step 3: Apply 12 volts to the Red Stoplight Pin # 4 on the 7-Way.

- Wait 60 seconds and the Brake Monitoring System (BMS-1) alarm will sound.

Step 4: Charge the Blue (In) Service Gladhand to (90-120 PSI).

- The Brake Monitoring System (BMS-1) alarm will shut-off.

Note: If the alarm continues to sound, see L31250 Installation/ Troubleshooting Guide for Brake Monitoring System (BMS-1).

Trailer



Air System Test

Step 1: Verify Trailer Air System is functioning correctly.

- Charge Emergency (IN) gladhand (90-120 PSI).
 - Spring Brake Chambers should release.
 - Air Reservoir Tank should fill.
 - Air Bags should inflate after approx. 20 seconds.

- Check and correct any Emergency air leaks.

- Charge Service (IN) gladhand (90-120 PSI).

- Service Chambers should apply.
- Release Service gladhand pressure and brakes should release.

- Check and correct any Service air leaks.

- Release Emergency (IN) gladhand pressure.

- Spring Brakes should park.

Step 2: Verify Trailer ABS Power.

- Apply 12 volts to the Blue ABS Pin # 7 on the 7-Way and verify the external mounted Trailer ABS Warning Lamp goes (ON-OFF). The ABS system is (OK).

- If the Trailer ABS Lamp stays (ON) solid, an ABS fault is present Ref. the ABS Installation/Service Guide L30041.

- Turn (OFF) Blue ABS Power.

Step 3: Verify Trailer Stoplight Power.

- Apply 12 volts to the Stoplight Pin # 4 on the 7-Way and verify external mounted Trailer ABS Warning Lamp goes (ON-OFF). The ABS system is (OK).

- If the Trailer ABS Lamp stays (ON) solid, an ABS fault is present. Ref. the ABS Installation/Service Guide L30041.

- Turn (OFF) Red Stoplight Power.

Functional Test for Brake Monitoring System (BMS-1)

Note: All Power and Air Pressure must be removed prior to start of this test.

Step 1: Apply 12 volts to the Blue ABS Pin # 7 on the 7-Way.

- The Brake Monitoring System (BMS-1) alarm will sound after 15 seconds.

Step 2: Charge the Red (In) Emergency Gladhand to (90-120 PSI).

- The Brake Monitoring System (BMS-1) alarm will shut-off.

Step 3: Apply 12 volts to the Red Stoplight Pin # 4 on the 7-Way.

- Wait 60 seconds and the Brake Monitoring System (BMS-1) alarm will sound.

Step 4: Charge the Blue (In) Service Gladhand to (90-120 PSI).

- The Brake Monitoring System (BMS-1) alarm will shut-off.

Note: If the alarm continues to sound, see L31250 Installation/ Troubleshooting Guide for Brake Monitoring System (BMS-1).

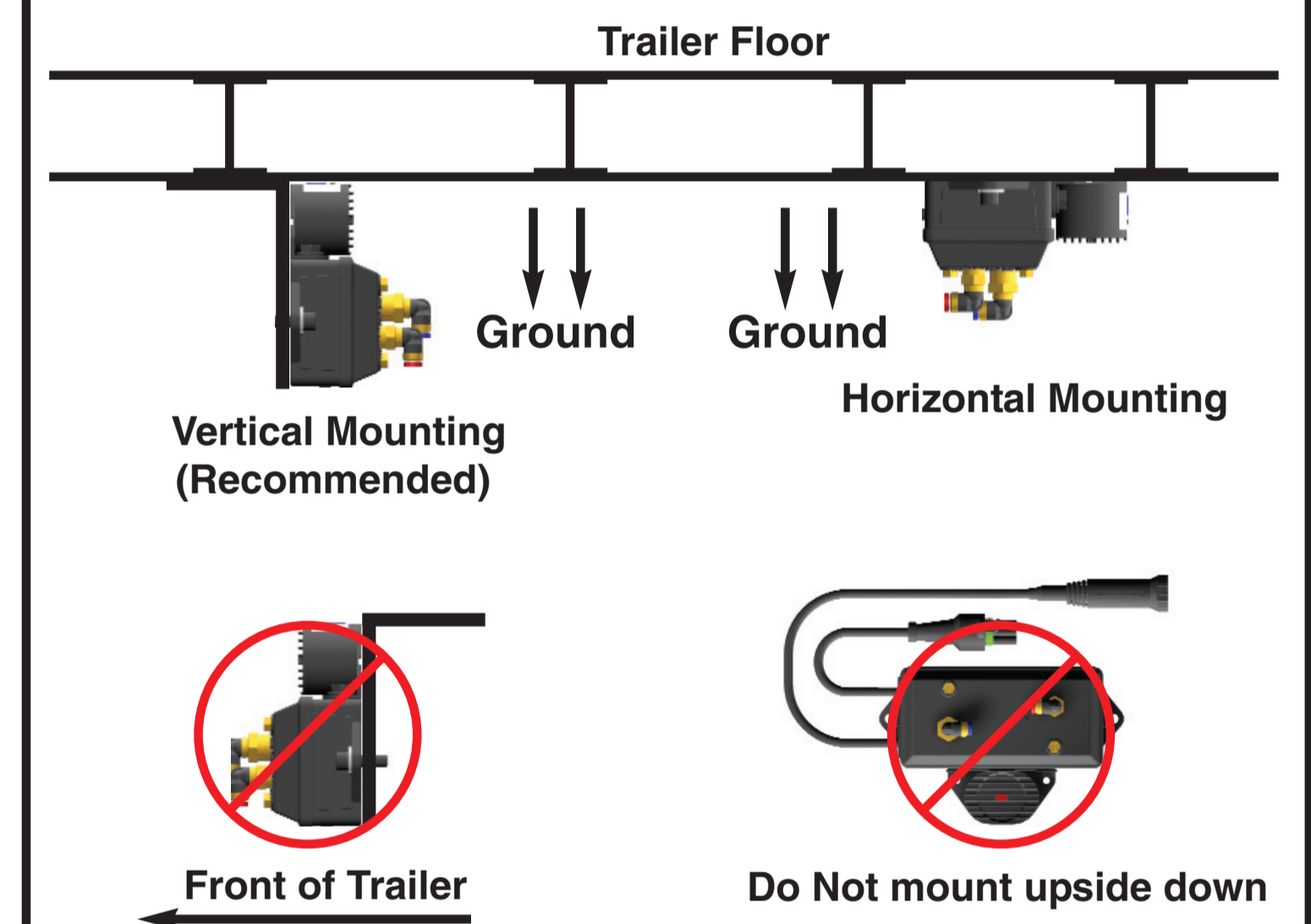
(BMS-1) Retro-Fitting



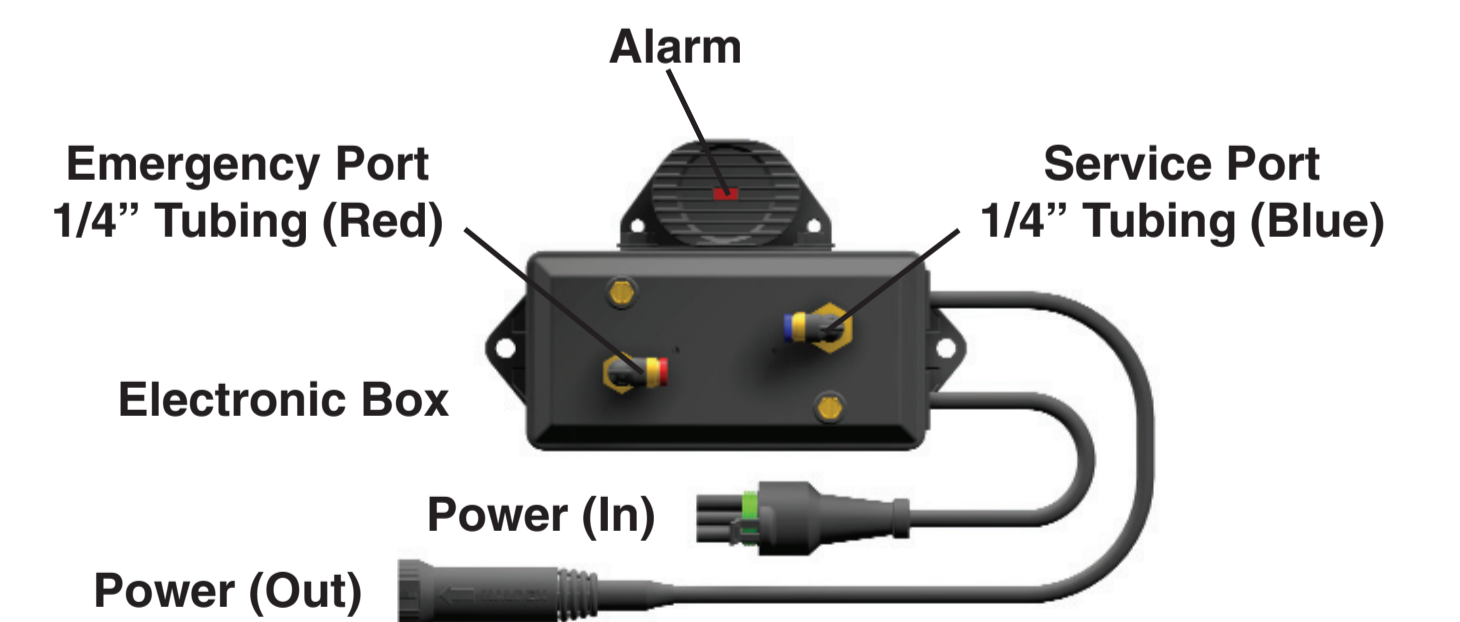
The Brake Monitoring System (BMS-1) can be mounted in two position vertical, and horizontal. Haldex recommends vertical mounting. **DO NOT** mount the (BMS-1) upside down.

The Brake Monitoring System (BMS-1) can be mounted on a trailer/dolly frame rail or mounted on a fabricated bracket. Use (2) 5/16"-18 bolts, washers, and locking nuts on the Brake Monitoring System (BMS-1) torque 6 - 8 ft. lbs. The Power (IN) and Power (OUT) cables are approx. 34" long. Use tie straps to secure any excess cable.

Mounting Location and Orientation



Brake Monitoring System (BMS-1)



Pin Location for 7-Way Connector

