



PLC Select System ABS for Trailers

Tandem / Tri-Axle Trailers

2S/1M Trailer System (2 Sensor / 1 Modulator Valve)



Haldex Brake Products

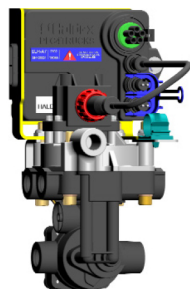
10930 North Pomona Ave
Kansas City, Missouri 64153

Phone: 816-891-2470
Fax: 816-880-9766

(www.haldex.com)

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

ABS Valves



4-Port FFABS Valve

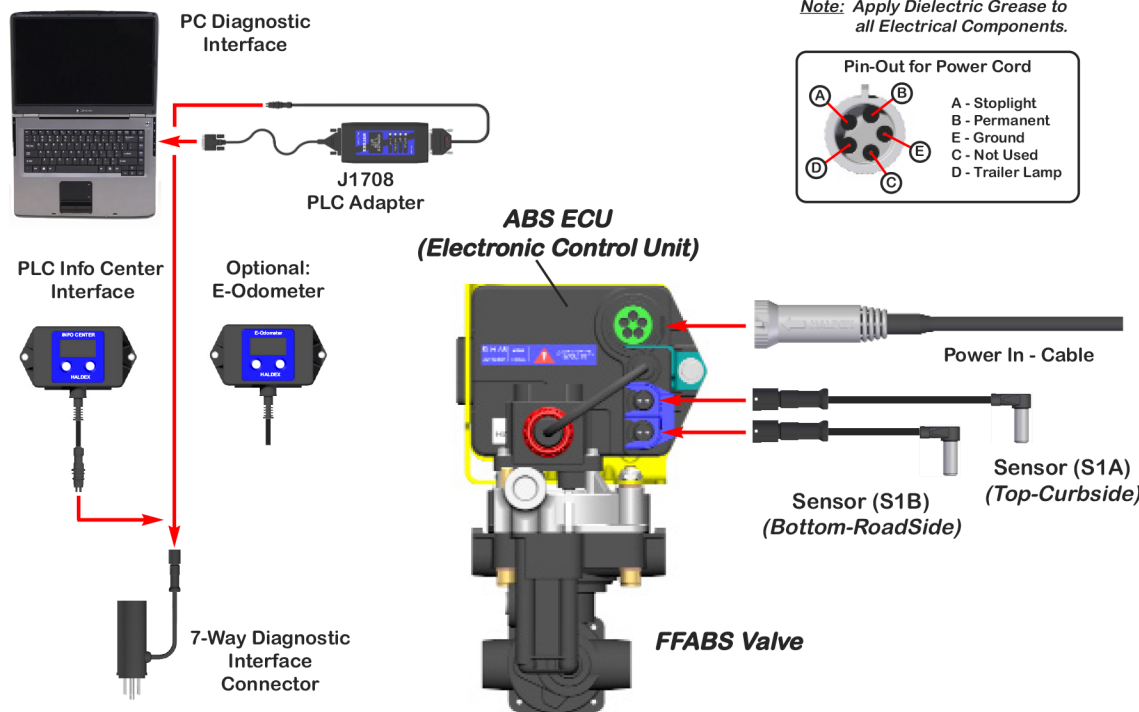
Applications:
2S/1M System
Multiple Axles

Spring brake valve built into
PLC Select FFABS

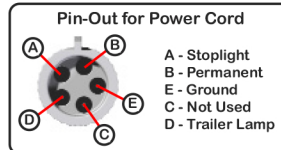
"FFABS Valve is available in
Spring Brake Priority
or
Service Brake Priority

Installation/Service Manual "L30041"

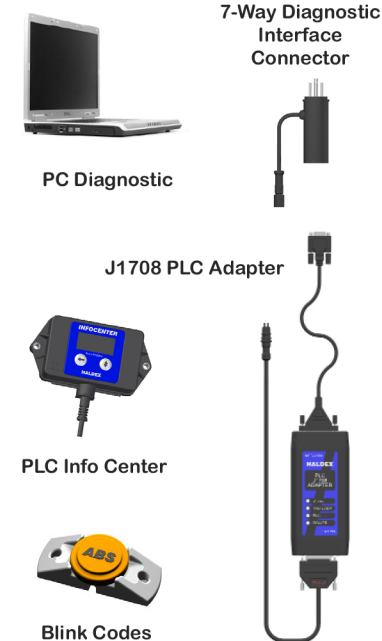
"For Technical and Engineering Support
United States - 1-800-643-2374
Canada - 1-519-826-7723"



Note: Apply Dielectric Grease to
all Electrical Components.



Diagnostic Tools



ABS Cables



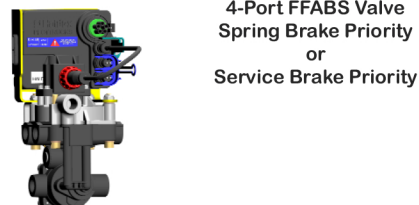
Trailer ABS Power Cable



Sensor
Extension Cable

"See Haldex Trailer ABS Service
Components Catalog L20243 for additional
information on Haldex ABS Products"

Haldex Supplied Items



4-Port FFABS Valve
Spring Brake Priority
or
Service Brake Priority

Optional Supplier Section



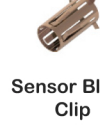
ABS Lamp



90° Degree Sensor



Trailer Brake Control Valve
(TBCV)
"Not Required with FFABS"



Sensor Block
Clip

Optional Installation Aids



3-Way Clip

Sensor Cable Hose Clip

Sensor Extension
Retainer Clip

Tie Strap

System Plumbing

Legend:

Service/Control Line
Emergency/Supply Line
Sensor Line

2S/1M System FFABS Valve with/ECU

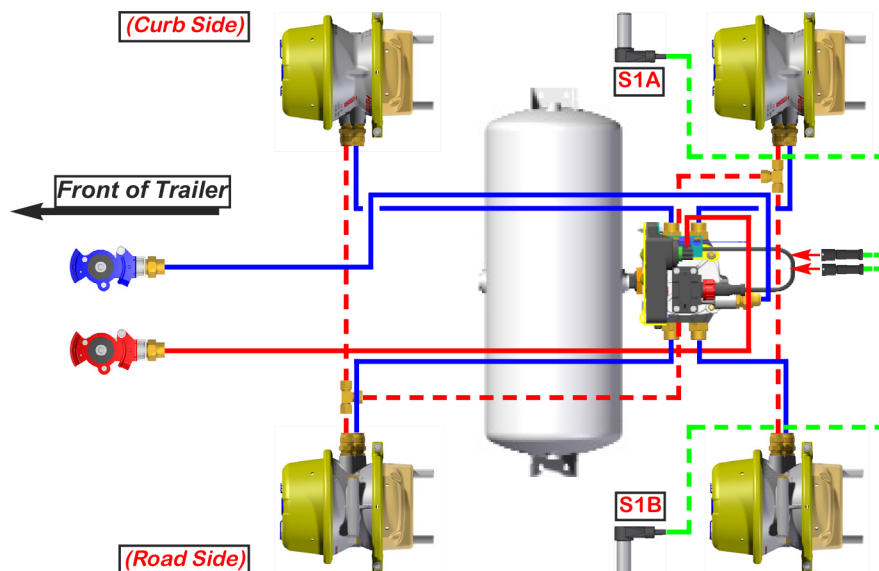
Trailer Configuration:

Air Suspension - Sense Rear Axle
Spring Suspension - Sense Front Axle

AIR BRAKE COMPONENTS AND SYSTEM SCHEMATIC ARE DESIGNED
TO ALLOW COMPLIANCE WITH FMVSS 121.

THIS SCHEMATIC IS FOR INFORMATION PURPOSE ONLY. IT IS THE
VEHICLE MANUFACTURERS ULTIMATE RESPONSIBILITY TO CERTIFY
THEIR SYSTEM MEETS ALL APPLICABLE REGULATIONS.

PIPE NIPPLES USED TO MOUNT BRAKE VALVES MUST BE HEAVY
WALL TYPE PER SAE J514.



Diagnostics

Recommended Production Testing:
Caution: Do Not use battery charger to power up ABS

On Line (Chassis) ABS Check
This step will ensure the ABS system (less power cable and warning lamp)
is functioning properly.

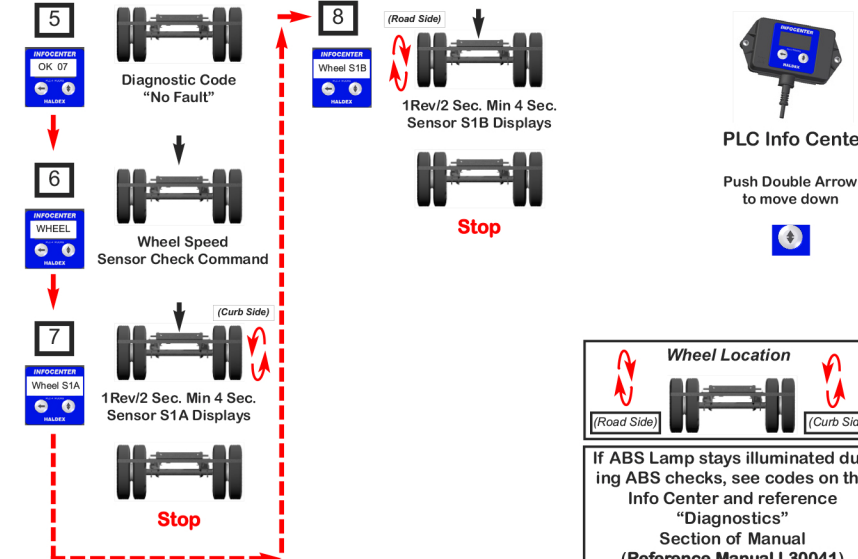
Test Equipment: 12VDC power source, ABS power cable with ABS light
connected, PLC Info Center and Info Center test cable and or Haldex PC
Diagnostics.

Procedure for 2S/1M:

1. Connect test power cable to power lead.
2. Charge the Emergency and Service air systems.
3. Apply ABS Permanent power source.
4. ABS valve should "blow-down" a brief shot of exhaust air.
5. ABS test light should flash "ON" for about 3 seconds and then go out, PLC Info Center or PC Diagnostic should display "OK 07".
6. If using the Info Center press the right button to display "WHEEL".
7. Rotate the front sensed "Curb" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S1A Sensor.
8. Rotate the front sensed "Road" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S1B Sensor.

Recommended Production Testing:
Test Equipment 12VDC power source, PLC Info Center or PC Diagnostic

1. Charge the Emergency and Service air systems.
2. Apply ABS Permanent Power source to 7-way receptacle.
3. ABS valve should "blow-down" a brief shot of exhaust air.
4. ABS light should flash "ON" then "OFF"
5. PLC Info Center or PC Diagnostic should display "OK 07".
(Optional 7-Way Diagnostic interface connector cable is available)



If ABS Lamp stays illuminated during
ABS checks, see codes on the
Info Center and reference
"Diagnostics"
Section of Manual
(Reference Manual L30041)