



PLC Select System Side-By-Side

Tandem Trailers

4S/2M Trailer System (4 Sensor / 2 Modulator Valve)



Haldex Brake Products

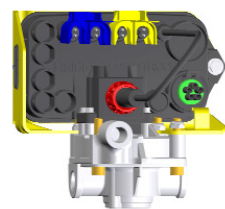
10930 North Pomona Ave
Kansas City, Missouri 64153

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

(www.haldex.com)

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

ABS Valves



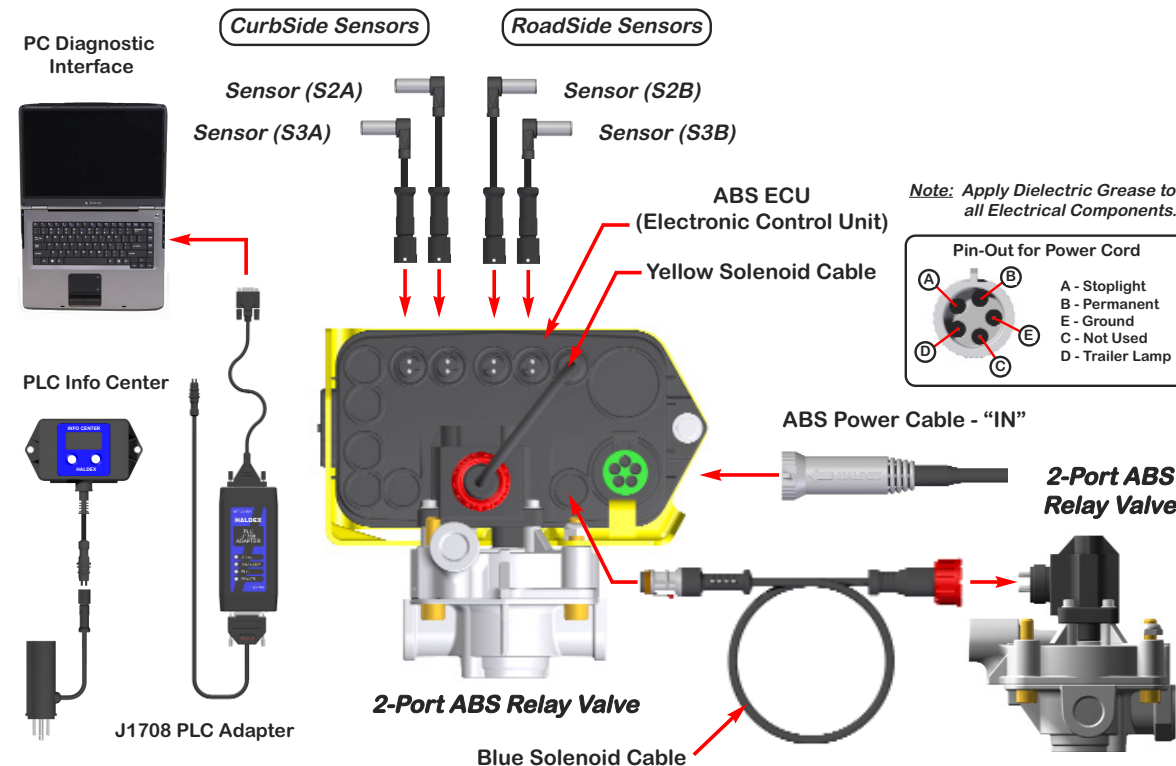
2-Port Relay Valve PLC Select

Applications:
2S/2M System
4S/2M System
(Tandem Axle)

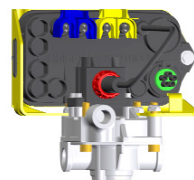
(Service Brake Delivery Ports - (2))

Installation/Service Manual "L30041"

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



Haldex Supplied Items



2-Port ABS Relay Valve
(Service Brake)



2-Port ABS Relay Valve
(Service Brake)



Solenoid Cable

Note: When an ABS Relay Valve is used,
a Spring Brake Control Valve is required
such as a Haldex - Trailer Brake Control
Valve or a Haldex - RT4 Valve.

Optional Supplier Section



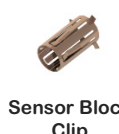
ABS Lamp



90° Degree Sensor



Trailer Brake Control Valve
(TBCV)



Sensor Block
Clip

Optional Installation Aids



3-Way Clip



Sensor Cable Hose Clip



Sensor Extension
Retainer Clip



Tie Strap

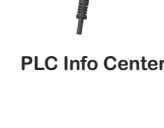
Diagnostic Tools



PC Diagnostic



J1708 PLC Adapter



PLC Info Center



Blink Codes

7-Way Diagnostic Interface Connector

ABS Cables



Trailer ABS Power Cable



Sensor
Extension Cable



Solenoid Cable

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

System Plumbing

Legend:

Service/Control Line ————
Emergency/Supply Line - - - - -
Sensor Line - - - - -

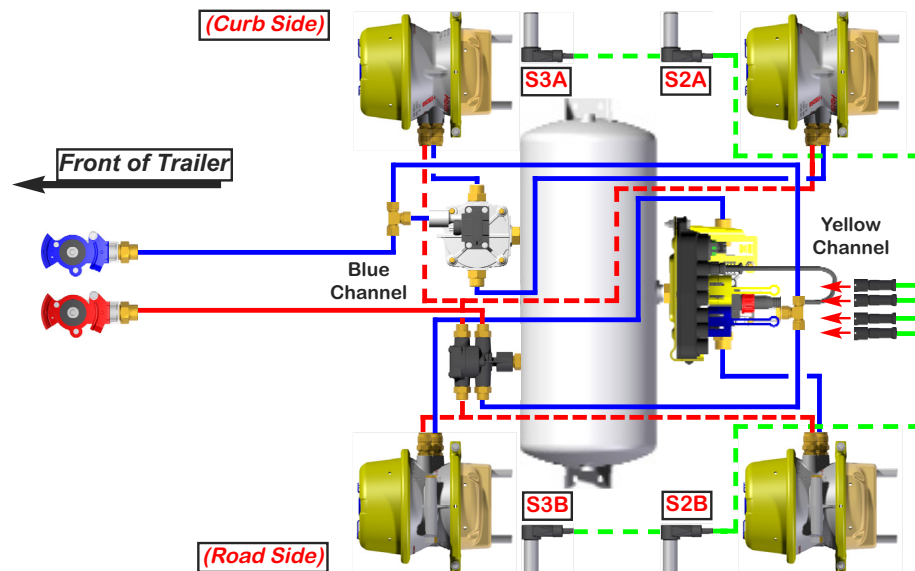
4S/2M System
2-Port ABS Relay Valve w/ECU
2-Port ABS Relay Valve
and (TBCV)

Trailer Configuration:
Side-By-Side

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 4S/2M:

1. Connect test power cable to power lead.
2. Charge the Emergency and Service air systems.
3. Apply ABS Permanent power source.
4. Each 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 S3A Sensor.
8. Rotate the front sensed "Road" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S3B Sensor.
9. Rotate the rear sensed "Curb" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S2A Sensor.
10. Rotate the rear sensed "Road" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S2B 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. Each 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)

