



PLC Select System Side-By-Side

Tandem / Tri-Axle Trailers

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



Haldex Brake Products

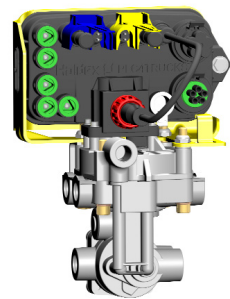
10930 North Pomona Ave
Kansas City, Missouri 64153

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

(www.haldex.com)

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

ABS Valves



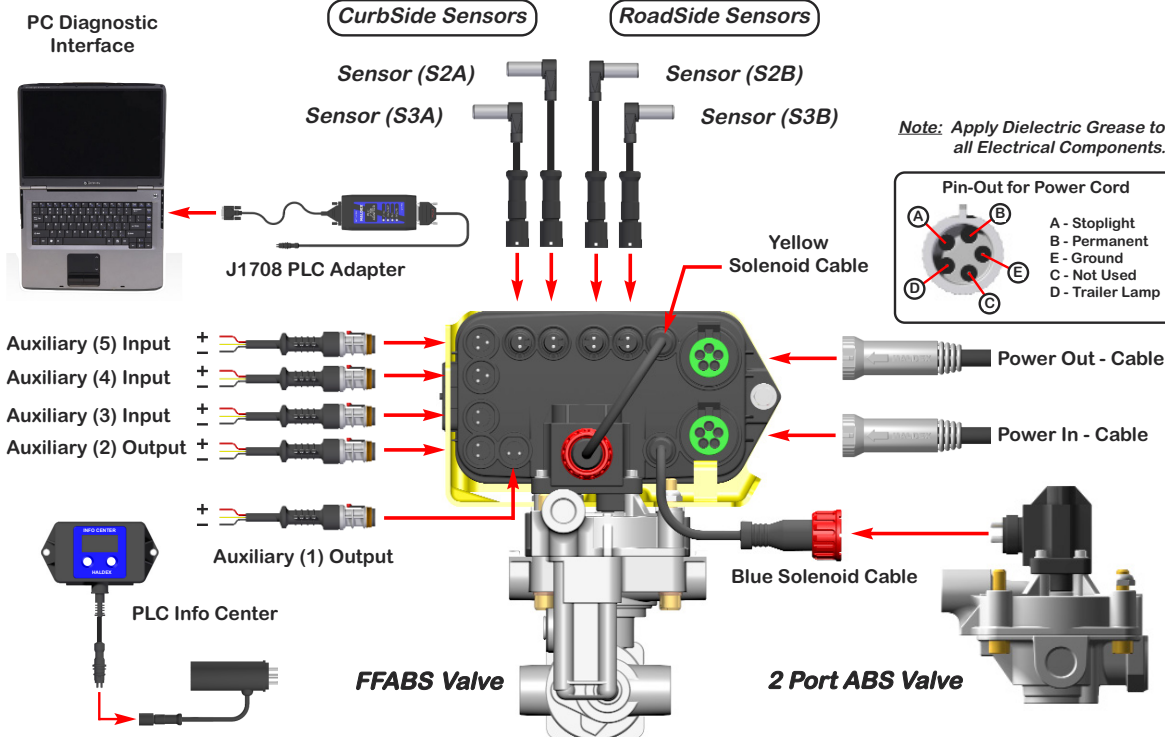
FFABS PLC Select Plus

Applications:
4S/2M System
Tandem Axle or
Tri-Axle

Spring brake valve built
into PLC Select FFABS 2M
"Parking Brake" priority

Installation/Service Manual "L30041"

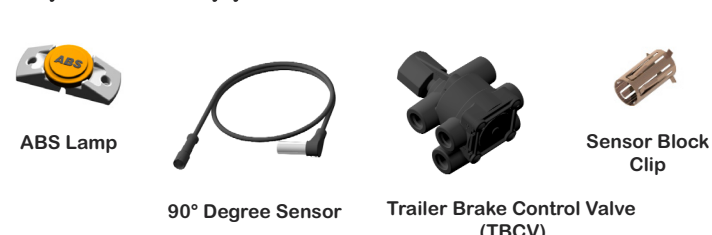
"For Technical and Engineering Support
United States - 1-800-643-2374
Canada - 1-519-826-7723"



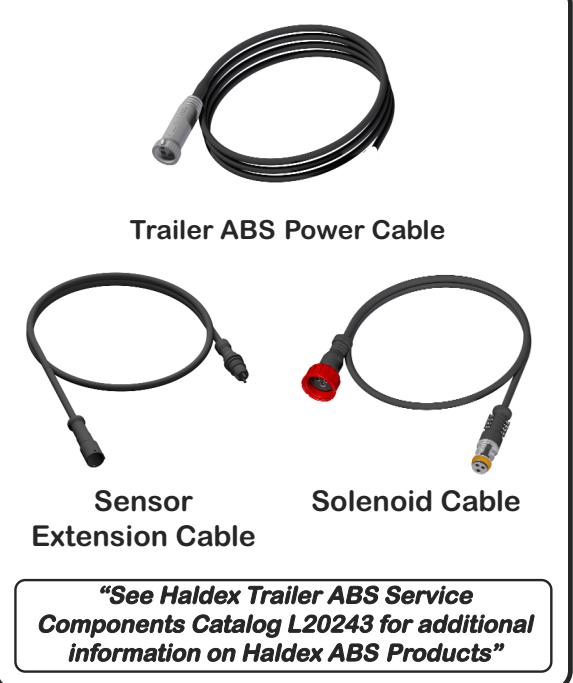
Haldex Supplied Items



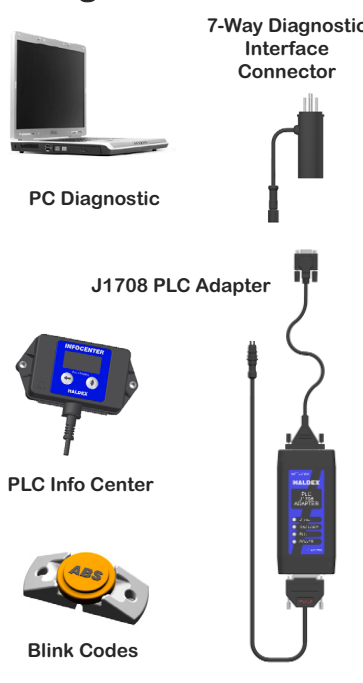
Optional Supplier Section



ABS Cables



Diagnostic Tools



System Plumbing

Legend:

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

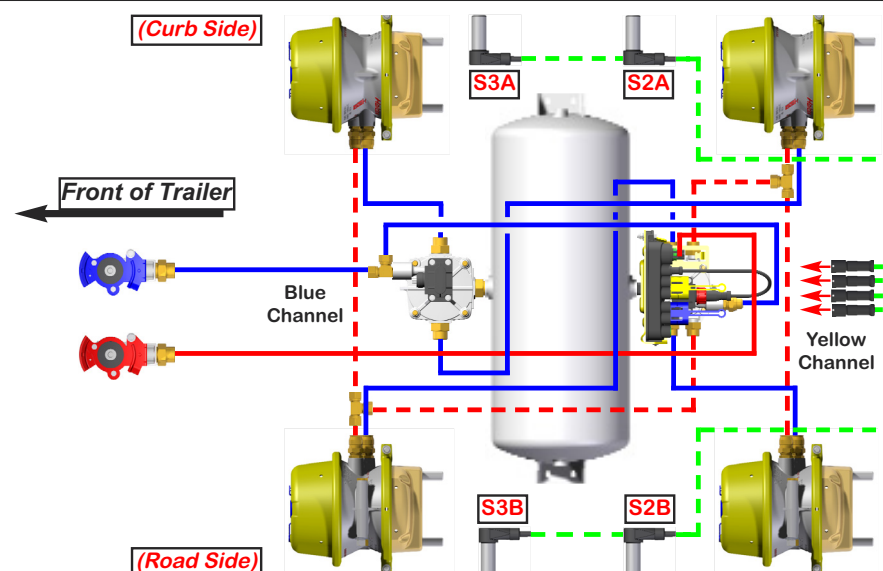
4S/2M System
FFABS Valve w/ECU
2-Port ABS Relay Valve

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 S2A Sensor.
9. Rotate the rear sensed "Curb" side wheel (1 Rev/2 Sec) 4 seconds minimum: test equipment should display S3B 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)

Diagnostic Code "No Fault"

Wheel Speed Sensor Check Command

1 Rev/2 Sec. Min 4 Sec. Sensor S3A Displays

1 Rev/2 Sec. Min 4 Sec. Sensor S2A Displays

1 Rev/2 Sec. Min 4 Sec. Sensor S3B Displays

1 Rev/2 Sec. Min 4 Sec. Sensor S2B Displays

Push Double Arrow to move down

Wheel Location

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