



PRESSURE GAUGE KIT (for brake locks)

Installation and Service Instructions

BE SURE TO READ GENERAL GUIDELINES SHEET (81-600-001) BEFORE PROCEEDING

⚠ WARNING

The pressure required for adequate holding will vary, depending on the machine, load, grade, and number of locked wheels on the machine.

The lock and or gauge installer must establish a pressure zone that will hold a loaded machine on a specific grade. This information must be made available to the end user or operator. **See INSPECTIONS AND TESTS on the back side of this sheet.**

Installation Instructions

- Loosen tube nut from outlet port of the ZF Off-Highway Solutions Minnesota Inc. brake lock.
- Remove existing fitting and install tee (10).
- Install one of the three supplied fittings (6, 7, or 8) based on the size of the brake line. Reassemble the brake line.
NOTE: Support fittings with appropriate tube nuts while wrenching.
- Install gauge (2) in a convenient position in view for the machine operator using mounting bracket (1), screws (4), lock washers (3), and nuts (5).
- Plumb gauge (2) to tee (10) using 3/16 inch brake tubing. Tighten the fitting at the brake lock.

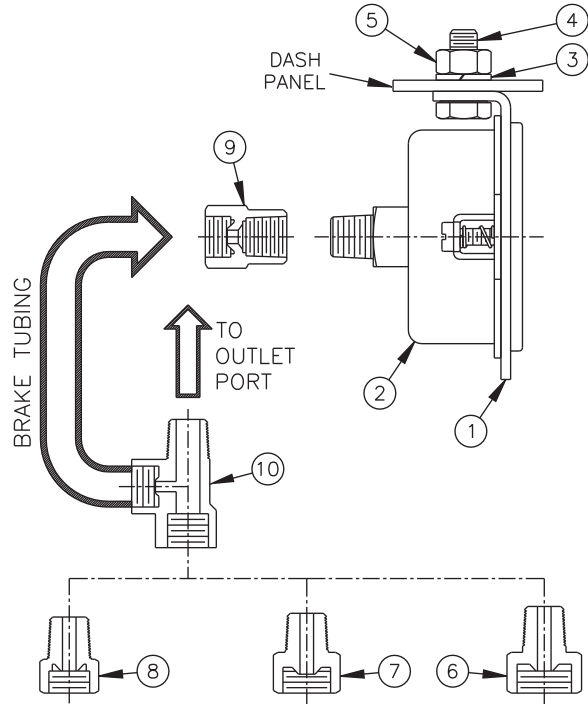


FIGURE 1

Bleeding Instructions

- Bleed air at the brake lock body and tighten the fitting.
- Loosen the fitting at the gauge. Bleed air and retighten the fitting.
- Bleed the brake system according to the machine manufacture recommendations.
- Bleed at the gauge coupling fitting and retighten fittings.

Items included in Gauge Kit 02-740-025

Item Number	Description	Quantity
1	Mounting Bracket	1
2	Gauge	1
3	Lock Washer 1/4 inch	2
4	Hex Head Cap Screw 1/4-20 UNC x 5/8	2
5	Nut 1/2-20 UNC	2
6	Male Connector 1/8 pipe M x 1/2-20 FM (5/16 tube)	1
7	Male Connector 1/8 pipe M x 7/16-24 FM (1/4 tube)	1
8	Male Connector 1/8 pipe M x 3/8-24 FM (3/16 tube)	4
9	Female Connector 1/8 pipe FM x 3/8-24 FM (3/16 tube)	1
10	Street Tee 1/8 pipe M x 1/8 pipe FM (2)	1
11	Tube Nut 3/8-24 M (3/16 tube) not shown	1

NOTE: Gauge Kit 02-740-029 consists of items 1 and 2 only.

INSPECTIONS AND TESTS

Federal regulations require that parking brakes be capable of holding machines on a 20% grade with rated capacity load, until intentionally released.

It is recommended that parking brake and brake lock be tested daily, along with other safety equipment such as lights, horn, etc.

Testing Procedure

1. The machine must be fully loaded and driven on a 20% grade.
2. Parking brake and brake lock must be fully applied with engine running and the transmission in neutral.
3. To test the brake lock, operator must release parking brake, leaving brake lock applied, and remain in the driver's seat. Machine must remain parked, without movement, for at least one minute. **RECORD THE REQUIRED HOLDING PRESSURE AND MAKE IT AVAILABLE TO ALL OPERATORS OF THE MACHINE.**

4. To test parking brake, operator must apply the parking brake, release the brake lock, and remain in the driver's seat. Machine must remain parked, without movement.

If the machine moves while the parking brake is applied, the parking brake must be inspected and adjusted or replaced, and tested again.

If machine moves while the brake lock is applied, all hydraulic brake fittings, hoses, lines, and wheel cylinders must be inspected for leaks. Fittings which leak must be tightened or replaced. Hoses, lines, or wheel cylinders which leak must be replaced or rebuilt. Machine must be tested again and if it fails to remain parked with the brake lock applied, the brake lock must be replaced and original brake lock should be returned to ZF Off-Highway Solutions Minnesota Inc. for inspection and tests.

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