

DUALOCK

Operating Instructions



THIS NOTICE MUST BE AFFIXED
ON DASH IN VIEW OF OPERATOR

⚠ WARNING



**PREVENT
ROLLAWAY**

**Read operating instructions before using
brake lock.**

**The Brake Lock is a supplemental safety
device. It is not to be used in place of the
original equipment parking brake.**

**Always set parking brake and use wheel
chocks and outriggers with Brake Lock.**

Release Brake Lock before moving vehicle.

**Do not use Brake Lock for overnight or pro-
longed parking.**

ATTENTION

These Operating Instructions must be placed in cab of vehicle in a place available to operator to ensure proper operation of Dualock.

The self-adhesive warning label, accompanying each Dualock, must be affixed in cab in view of operator.

Principles of Operation

The MICO Dualock is a **SUPPLEMENTAL** safety device and is **NOT** to be used in place of the original equipment parking brake. When used with existing vehicle parking brake, the MICO Lock uses a portion of the vehicle's hydraulic service brake system to provide additional brake holding action.

When the Dualock is activated and hydraulic service brakes applied, hydraulic pressure is locked in the service brake system. In this way, the hydraulic service brakes continue to be applied after operator removes his foot from brake pedal.

The Dualock does not increase brake pressure, it only locks in the pressure generated by pushing on brake pedal. The harder the operator pushes on brake pedal, the higher the pressure in brake system.

Since the Dualock is locking hydraulic brake pressure, any leak in the hydraulic brake system will allow pressure to decrease and release brakes. The hydraulic service brake system must be kept in good operating condition to ensure that pressure locked by the Dualock will be maintained.

The MICO Dualock has Low Pressure Warning Switches. These switches are to be used with visual or audible alarms which will alert operator(s) in or around the vehicle of a possible unsafe reduction in brake system pressure and holding capability.

When knob of Dualock is moved to the full lock position, alarm will start, indicating insufficient brake holding pressure. The operator then pushes on brake pedal until sufficient brake pressure has been reached, causing alarm to stop. If a loss of pressure occurs in the locked brake system, alarm will start again indicating insufficient brake holding pressure.

Changes in the outside temperature may cause locked up pressure to increase or decrease. Higher temperatures may cause increased pressure which may cause brake system damage or failure. Lower temperatures may cause decreased pressure which may reduce holding level of brakes. For these reasons, the MICO Dualock must not be used for overnight or prolonged parking. To minimize these pressure changes, the Dualock must be released and reapplied every hour.

In applications where there is no horn or other audible device on the vehicle, one should be installed. A visual pressure gauge can be used to indicate to the operator when there is adequate hydraulic pressure locked up or when there has been a pressure loss in the system after lock-up.

MICO is a registered trademark of MICO, Incorporated. MICO is registered in the U.S. Patent and Trademark Office as well as in Australia, Canada, Great Britain, Indonesia, Japan, Peoples Republic of China, and South Korea.



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OPERATING INSTRUCTIONS

The MICO Dualock is activated and released by a knob/cable.

To activate Dualock

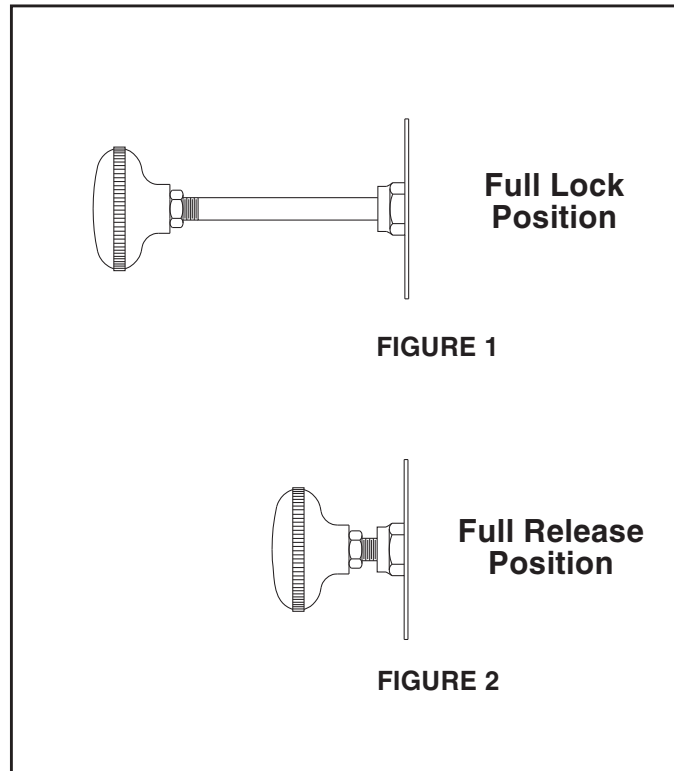
1. Bring vehicle to a complete stop.
2. Set mechanical parking brake.
3. Remove foot from brake pedal and observe if vehicle remains stationary.
4. Move knob to full lock position as indicated on dash plate (Figure 1). Alarm will start. If alarm does not start, discontinue use of lock, determine cause and correct problem before using lock.
5. Apply service brakes firmly until alarm stops.
6. Use wheel chocks, outriggers and any other means to keep all wheels that are in contact with the ground from moving as required by manufacturer's recommendations.

If alarm starts while Dualock is in use

This indicates unsafe brake system pressure. Discontinue use of lock, determine cause and correct problem before using lock.

To release Dualock

1. Retract outriggers and remove wheel chocks. Remove any other means used to keep all wheels that are in contact with ground from moving.
2. Move knob to full release position as indicated on dash plate (Figure 2).
3. Release mechanical parking brake.



INSPECTIONS AND TESTS

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

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

Testing Procedure

1. The vehicle must be fully loaded and driven on a 20% grade.
2. Parking brake and MICO Dualock must be fully applied with engine running and transmission in neutral.
3. To test dualock, operator must release parking brake, leaving MICO Dualock applied, and remain in driver's seat. Vehicle must remain parked, without movement, for at least one minute.
4. To test parking brake, operator must apply parking brake, release MICO Dualock, and remain in driver's seat. Vehicle must remain parked, without movement.

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

If vehicle moves while MICO Dualock 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. Vehicle must be tested again and if it fails to remain parked with MICO Dualock applied, dualock must be replaced and original lock should be returned to MICO for inspection and tests.

MICO could not possibly know of and give advice with respect to all conceivable applications in which this product may be used and the possible hazards and/or results of each application. MICO has not undertaken any such wide evaluation. Therefore, anyone who uses an application which is not recommended by the manufacturer, first must completely satisfy himself that a danger will not be created by the application selected, or by the particular model of our product that is selected for the application.

MICO has made every attempt to present accurate information in catalogs, brochures and other printed material. MICO can accept no responsibility for errors from unintentional oversights that may exist. Due to a continuous program of product improvement, materials, specifications, and product documentation are subject to change without notice or obligation.