# Brookville Equipment Corporation Product Information Bulletin 70 (2/8/13) All Units Equipped with Part Number 03-0025 (40-130-H) Brake Shoes

**Instructions for the Inspection and Condemning of Brake Shoes** 

## Purpose:

To describe the proper procedure for inspecting part number 03-0025 brake shoes for maximum wear allowance.

## Action:

Maintaining and frequently inspecting brake shoe adjustment and wear is of utmost importance to ensure safe vehicle operation. All manufacture's recommended pre-operational / pre-shift inspections, maintenance / service interval indexes, and maintenance / service procedures MUST be followed and performed at recommended intervals.

Brake shoe wear and braking systems adjustment must be inspected / evaluated at the following intervals:

- At the beginning of each shift, adjust and inspect brake shoes per the instructions below, entitled *Adjust / Inspect Brake Shoes*.
- At the beginning of each shift, measure brake shoe wear per the instructions below, entitled Brake Shoe Condemning Limit.
- At the beginning of each shift, perform brake adjustment per the instructions below, entitled **Check Brake Adjustment.**
- After every ten (10) hours of operation or prior to each shift, whichever occurs earlier, perform brake adjustment check per instructions below, entitled Check Brake Adjustment.
- After every fifty (50) hours of operation or every week, whichever occurs earlier, adjust and inspect brake shoes per the instructions below, entitled Adjust / Inspect Brake Shoes.
- After every fifty (50) hours of operation or every week, whichever occurs earlier, measure brake shoe wear per the instructions below, entitled Brake Shoe Condemning Limit.

Vehicle inspections and any adjustment or maintenance performed as a result of vehicle inspections shall be documented, signed, and countersigned so as to comply with all Local, State and Federal requirements.

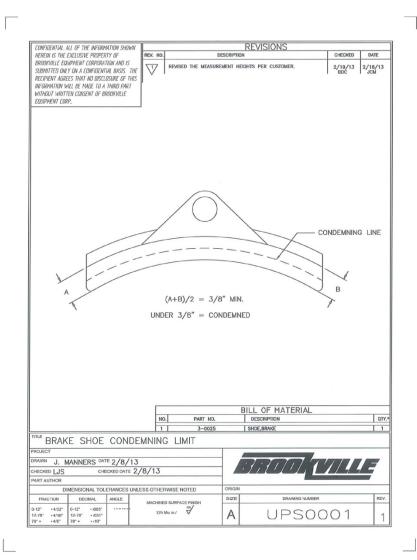
## **Adjust / Inspect Brake Shoes**

The clearance between the wheel and brake shoe should be inspected and adjusted on a regular basis in conformance with the within Product Bulletin and all manufacturer recommendations.

- Park the vehicle and fully chock each wheel to prevent any movement of the unit!!
- Service and emergency brakes should not be applied while servicing brake shoes.
- CAUTION: SPRING APPLIED EMERGENCY BRAKES
   AUTOMATICALLY APPLY WHEN RESERVOIR PRESSURE DROPS
   BELOW 70 (482 kPa) PSI. THE EMERGENCY BRAKES MUST BE
   EITHER MECHANICALLY CAGED WITH THE RELEASE STUD
   ASSEMBLY SUPPLIED WITH EACH CYLINDER, OR WITH A
   RELIABLE SHOP AIR SOURCE OF 100 (689.4 kPa) PSI MIN, 115
   (792.8 kPa) PSI MAX. DO NOT RELY ON THE VEHICLE AIR SYSTEM
   TO CAGE AND HOLD THE BRAKE SPRING. PRESSURE CAN
   SLOWLY DECREASE IN A PARKED VEHICLE AND AS IT
   APPROACHES 70 (482 KPA) PSI, EMERGENCY BRAKES WILL
   RAPIDLY APPLY UNDER A HEAVY FORCE, AND COULD RESULT IN
   SERIOUS PERSONAL INJURY.
- With service brakes in "off" or released position and with emergency brakes in "off" or released position, clearance between shoes and wheels should be checked. Push brake assembly forward and check clearance between each wheel and each brake shoe. Lengthen push rod turnbuckle until clearance between wheel and shoe is 0 to 1/16" (1.66mm). Be sure to lock the push rod turnbuckle with jam nuts after adjustment.

# **Brake Shoe Condemning Limit**

At the intervals set forth in this Product Bulletin and / or as otherwise recommended by the manufacturer, or more frequently as required, measure the "A" and "B" thickness of the brake shoe, as illustrated in drawing **UPS0001** (attached below). Add the "A" and "B" dimensions and divide by two (2) to determine average thickness of the brake shoe. An average shoe thickness in excess of 3/8" indicates the brake shoe is adequate for duty if brake system is adjusted properly. An average shoe thickness of 3/8" or less indicates the shoe should be replaced prior to the vehicle being approved for use.



## **Check Brake Adjustment**

Brake adjustment should be checked: (1) at the beginning of each shift; (2) After every ten (10) hours of operation; and (3) Mid-shift or anytime the operator deems necessary.

#### Procedure:

- Prior to starting vehicle, operator shall be seated in the operator's compartment and any additional passengers shall be seated in proper, designated areas. All safety chains, netting, and covers shall be secured and closed.
- It is the operator's responsibility to ensure that all persons are positioned a sufficient distance away from the vehicle to avoid harm should the vehicle move.
- 3. Start vehicle and set engine to low engine rpm
- 4. Apply service brake to fully applied position
- 5. Place transmission shifter control level in the appropriate direction and the speed / gear selection lever in the 3<sup>rd</sup> gear position
- 6. Slowly move the throttle lever to fully applied (high rpm) position
- 7. The vehicle should not move. If movement takes place, immediately adjust brakes per procedure in document Adjust / Inspect Brake Shoes and visually inspect brake shoes for remaining service life as described in document Brake Shoe Condemning Limit. Following any inspections, adjustments or performed maintenance, repeat steps 1 7 in the Check Brake Adjustment procedure.
- 8. If after completion of procedures 1 7, the vehicle fails the **Check Brake Adjustment** test due to movement, immediately remove the vehicle from service using the established mine / facility safety protocol.

## **Units to Which Product Bulletin is Applicable**

All vehicles equipped with shoe-style brakes, Brookville part number 03-0025. Please consult your vehicle's Parts Manual to confirm the appropriate manufacturer's recommended brake shoe for your specific vehicle.

Only Original Equipment Manufacturer (O.E.M) replacement parts should be used on your vehicle. Please contact Brookville Parts Sales representatives to order spare / replacement parts for your Brookville Equipment Corporation manufactured vehicles.

When contacting Brookville to order O.E.M spare / replacement parts, please have the following information ready for our Parts Representatives:

- Vehicle Model Number
- Vehicle Serial Number
- Part Number of Item(s)
- Shipping Reference

Our Parts Sales Department can be contacted via:

#### Phone:

- (800) 491-4757
- (814) 849-6031
- (814) 849-6038

## Fax:

• (814) 220-1112

#### Email:

PartsSales@brookvillecorp.com

## **Questions Concerning this Product Bulletin**

Should you have any questions concerning the information found within this Product Bulletin please contact us using the following information:

#### Phone:

- (814) 849-2000
- (814) 220-1100

#### Fax:

- (814) 849-2010
- (814) 220-1112

## Email:

- info@brookvillecorp.com
- contact@brookvilleservices.com