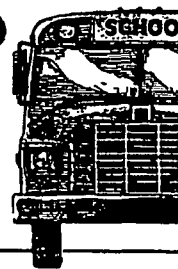


# Abex®

An IC Industries Company

## BRAKELINER SCHOOL BUS TECHNICAL BULLETINS



Bulletin No. 3

Friction Products Division, 3001 W. Big Beaver Rd., Troy, Michigan 48064-3184

### Brake Noise

Acceptable brake performance after brake reline is dependent upon how well the brake system was inspected and the quality of maintenance performed. Efficient brake operation requires every component in the system to be in good working condition.

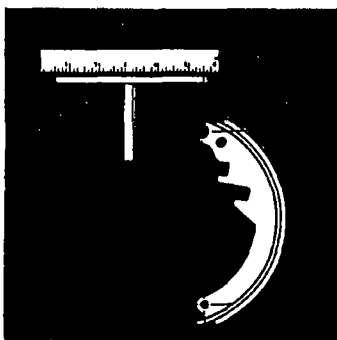
One of the most common complaints on school buses is brake noise. Brake noise is usually the result of inconsistencies in the brake system. Some factors affecting brake noise are as follows:

#### 1 Lining to Drum Contact

Check all used brake shoes for being bent and/or stretched.

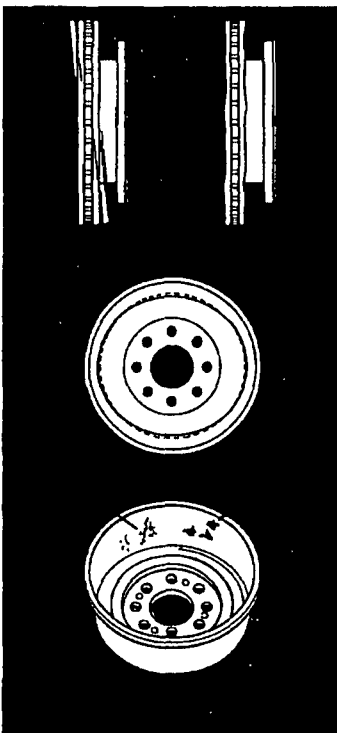
Shoe table must be flat to within .002 inch per 1 inch of table width.

Measure shoe. Compare dimension "X" to that of new shoe. If difference is greater than 1/64", discard shoe.



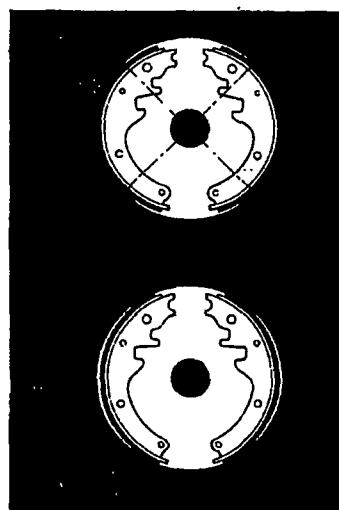
#### 2 Machine Disc Rotors and Brake Drums for concentricity with spindle and axle.

Machining disc rotors and drums may remove heat checks and blue spots, but they will reappear later. As a result of heat input from braking, it is best to replace severely heat checked and blue spotted rotors or drums during relining. Remember, replace rotors or drums in pairs. It is suggested that new drums also be machined on their hub to minimize runout.



#### 3 Use Oversize Lining

when drum diameter will accept it. There should be .005-.010 inch clearance between lining and drum at points A and B. Center contact is desirable for smooth braking. To insure optimum lining and drum life, each brake must do its share of the braking. Improper lining and drum contact will result in wheels with good contact to be overworked, resulting in abused lining and drums/rotors.



#### 4 Brake Hardware

Brake shoe hold down springs or clips and shoe return springs must be replaced at each relining. Return springs of varying tensions must be installed in their proper locations.

