INSTALLATION INSTRUCTIONS BKA/CVA

WARNING: ALARMS WILL NOT PROPERLY SOUND IF GONG SHELL IS NOT KEPT ENTIRELY FREE FROM OBSTRUCTION. BE SURE TO CHECK FOR THE FOLLOWING:

1) Keep mechanism clear of all dirt, snow, materials, etc., which may interfere with operation.
2) Keep hammer and spring return mechanism in adjustment to ensure proper striking.
3) Check entire surface of gong shell to see that it is not coming in contact with anything which could mute its sound.

BKA

The **BKA** alarm is shipped ready for use in forward or reverse direction of any wheel of your vehicle. If you require alarm operation in only one direction (e.g. back-up), choose the side for mounting and reposition only ONE hammer as shown in **figure 1-3.** Refer to **figure 4** for re-assembly assistance.

VERY IMPORTANT: When the alarm is intended for single direction use, the two hammer stop pawls must be added to the mounting plate. **Figures 2 & 3** show their location and **figure 4** shows installation. Follow stacking arrangement exactly and confirm that pawl positioning is exactly as shown in **figure 2 & 3** before replacing gong.

Model **BKA**: **Figure 6** shows typical fork lift axle flange having odd number of securing lugs.
In the case of an ODD number of lugs

The **BKA** alarm backing plate it then positioned on the hub as shown in **figure 7**. Note that the plate is held away from the hub by 2 tubular spacers.

Because of the great number of different bolt size used and different lengths required to fit the various applications, we do not furnish mounting screws or spacers. These are generally available in maintenance shops where the units are installed.

CVA

The **CVA** alarm is shipped ready for use on the right side of the vehicle for reverse operation or the left side for forward operation. The mounting bracket kit enables you to fit any hub with a bolt circle diameter from 2-13 inches, with 4, 8, or 12 lugs, and an offset of approximately 1-4 inches. To determine the correct method of mounting for your vehicle, note the wheel lugs and required length of bell bracket.

INSTALLATION FOR 4, 8, or 12 lugs: For use on hubs with 4, 8, or 12 lugs, remove 4 nuts and washers from the hub at 90 degree intervals (**figure 9**, rear view).

1) Install 4 hub angle brackets as shown in **figure 8, 9, & 11** and replace washers and nuts Tighten securely. For lugs smaller than 3/4" diameter, use the provided hole reducing spacer washers and a bridging washer before replacing the lug nuts (**figure 10**).

2) Remove the gong (only the outer locknut need be removed) and fasten the extension brackets to the mounting plates with 1/4"-20 bolts and separate locknuts. Do not reinstall gong until final alignment of the hub bracket and extension bracket is complete.

3) Loosely fasten the bell brackets to the threaded mounting plate using 1/4" bolts. Where possible, use the method that provides the shortest distance between the plate and the wheel hub. Use elongated holes against mounting plate to adjust extension bracket to the wheelhub brackets and then tighten bolts holding bell bracket to bell back plate.

4) Mate the alarm and bell bracket assembly to the wheel brackets using the 1/4" bolts, lockwashers, and nuts as shown in **figure 8.**

INSTALLATION WHERE 4 WHEEL LUGS 90 DEGREES APART *ARE NOT AVAILABLE:* Fasten two of the hub angle brackets to directly opposite wheel lugs using the appropiate washers and nuts. Drill and tap two holes (minimum 3/8"-16 to fit hole in hub bracket) on the hub bolt circle diameter at 90 degrees to a

line joining the opposite two lugs. The last two hub angle brackets may then be bolted directly to the hub (or see CVA/UMP Adapter).

NOTE: To adapt the **CVA** alarm to wheels with 5, 6, or 10 lug patterns, order **CVAUMP** Adapter Kit.

ADJUSTMENTS - CVA/BKA

HAMMER SPRING ADJUSTMENT - The leaf springs are used to make the hammer strike the gong and then rebound to produce a clear ringing sound. They have been adjusted at the factory, however disassembly or prolong use may make readjustment necessary.

CLANKING NOISED CAUSED BY HAMMER RESTING ON GONG AFTER STRIKING - The spring is too far toward the outside. Use a long nosed pliers to gently bend the spring back toward the center. Overadjustment will result in failure to ring (**figure 5**).

NO RING CAUSED BY HAMMER COMING TO REST SHORT OF GONG - The spring is bent to far toward the center. Use the same technique as above to gently bend the spring away from center. Over adjustment will result in the clanking sound referred to above.
Experience gained by a few adjustments will enable this to be done quickly thereafter.

STATE OF NEW YORK B.S.A. APPROVAL No. 8491

WARRANTY

If it appears within one year from date of delivery to Purchaser that any products or component parts do not conform exactly to the specifications and physical description referred to above, and the Purchaser, at its expense, returns the product or component parts to the Seller together with a report of defects, the Seller shall review the inspection report and inspect the items and shall authorize at its option, either the repair or replacement of any non-conforming products or component parts. The liability of the Seller to the Purchaser arising out of the supply of or the use of the products or component parts, whether on warranty, contract or negligence, shall not in any case exceed the amount to be paid by the Seller in obtaining and repair or replacement of non-conforming products or component parts, and upon the expiration of the warranty period, all liability of the Seller shall be terminated.

Seller shall not be liable for any injury, loss or damage, direct or consequential arising out of the use or the ability to use the product. This warranty gives specific legal rights. You may have other rights which vary from state to state.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so that the above limitation or exclusion may not apply to you.

WARNING: The individual user should take care to determine prior to use whether this device is suitable, adequate or safe for the use intended. Since individual application are subject to great variation, the manufacturer makes no representation or warranty as to the suitability or fitness of these devices for any specific application.