

474 721<sup>to</sup> 812.

MONO 72 SIREN

INSTALLATION AND MAINTENANCE INSTRUCTIONS

GENERAL

This siren is comprised a universally wound motor which drives a glass-filled nylon impellor inside a pressed, slotted cover. The sound is produced by the blades of the impellor alternately forcing air through the cover slots, and cutting off this air.

INSTALLATION

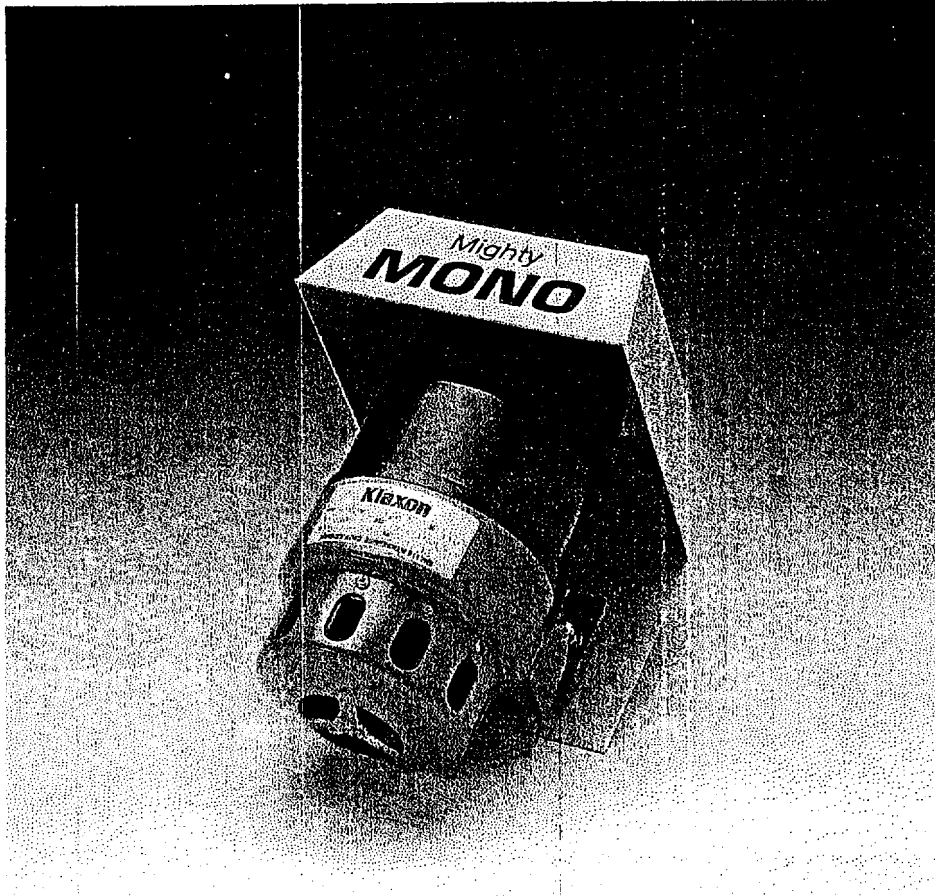
The unit should be installed with the motor horizontal to prevent water from settling inside the siren housing. On no account should the siren be mounted with the impellor uppermost.

The terminal connections are situated at the commutator end of the

**KLAXON**

# MIGHTY MONO

Electric Motor Driven Siren Complete with 12 volt Activation Relay.



## THE KLAXON MIGHTY MONO

A powerful motor driven mains siren activated via a 12v DC relay  
ideal for many security applications.

- Current Consumption: 0.42A
- Siren Rating: Continuous Operation
- Sound Output: 120-123dBa @ 1 metre
- \* Fully Weatherproof with or without cowl
- \* Pre-wired with 1m supply cable, 1m relay cable
- \* Robust Aluminium casting construction with Plastic cover



**Klaxon Signals Ltd.**

Warwick Road, Tyseley, Birmingham B11 2HR



MIGHTY MONO SIREN

INSTRUCTIONS

1 1800-3



# KLAXET HOOTER

## MAINTENANCE INSTRUCTIONS

This hooter is of the motor driven type, the note being produced by the revolution of a serrated rotor against a hardened steel stud rivetted to the centre of a diaphragm. The hooter is supplied complete with mounting bracket.

### MAINTENANCE

The hooter is adjusted to give its best performance before leaving our works. After prolonged use, however, it may become necessary to re-adjust the hooter to compensate for diaphragm stud wear. It may also be found that after long service the brushes or diaphragm may need replacement and the following notes are intended as a guide.

### ADJUSTMENT

The object of adjustment is to obtain the correct pressure between the rotor and stud. Upon this depends the quality of the note emitted by the hooter and the life of the rotor and diaphragm.

1. Loosen cap nut at rear of hooter body and rotate the adjusting arm in the 'off' direction for half a revolution.
2. Holding the adjusting arm to prevent it turning, switch the current on and immediately off. The armature should revolve freely without striking the diaphragm.
3. Rotate arm in 'on' direction by small movements  $\frac{1}{16}$  revolution or less holding arm still and switching on and off after each advance until the rotor is heard to just touch the diaphragm. Advance the arm  $\frac{1}{8}$  revolution. The correct note should now be emitted and an overrun of  $\frac{1}{2}$  second obtained. Do not turn the arm too far 'on', signified by reduced overrun, or motor will tend to stick and may burn out.
4. Hold arm still and tighten cap nut securely. It may be found necessary to make a further slight adjustment to allow for the axial movement of the bearing caused by the tightening of this nut.

### BRUSH REPLACEMENT

The brushes should be removed and if shorter than  $\frac{1}{4}$ " they should be replaced. When replacing brushes ensure that radius at the end of the brush follows the curvature of the armature.

### DIAPHRAGM REPLACEMENT

1. Disconnect hooter from supply and remove from mounting bracket by releasing the  $\frac{3}{8}$ " bolt securing hooter to bracket.
2. Separate front flange from body to removing the 6 - 2BA screws.
3. Examine diaphragm. If there is any sign of cracking it should be renewed.
4. Examine diaphragm stud. If stud has worn to a depth of more than  $\frac{1}{64}$ ", renew diaphragm.
5. To fit a new diaphragm, place diaphragm between the two felt gaskets and place on body casting with stud face downwards so that locating slots on diaphragm line up with holes on the body.
6. Replace front flange by tightening the 6 - 2BA screws evenly.
7. Replace hooter on bracket and secure  $\frac{3}{8}$ " bolt.
8. Re-connect hooter and adjust as above.

### SPARES

ITEM	QUANTITY	PART No.
Diaphragm Assembly	1	EC.187
Diaphragm Gaskets	2	EC.15
Brush & Spring Assembly (24/250v)	2	EC.254
Brush & Spring Assembly (10/23v)	2	EC.255
Armature & Bearing Assembly (12/250v)	1	EC.251/Stock No.
Matching Front Bearing	1	EC.91
Serrated Rotor	1	EC.63

# A1 - 72 HOOTER

## INSTALLATION AND MAINTENANCE

### INSTRUCTIONS

#### INSTALLATION

This Hooter is of the motor driven type, the note being produced by the revolution of a serrated rotor against a hardened steel stud rivetted to the centre of a diaphragm. The drive shaft to the rotor runs through a bush so that when the locknut is released the complete driving motor can be turned about on its axis, thus moving the conduit entry to suit the installation.

#### MAINTENANCE

The hooter is adjusted to give its best performance before leaving our works. After prolonged use, however, it may become necessary to re-adjust the hooter to compensate for diaphragm stud wear. It may also be found that after long service the brushes or diaphragm may need replacement and the following notes are intended as a guide.

#### ADJUSTMENT

The object of adjustment is to obtain the correct pressure between the rotor and stud. Upon this depends the quality of the note emitted by the hooter and the life of the rotor and diaphragm.

1. Support horn by bracket. Remove the 6-6mm screws holding the flange and diaphragm to the body.
2. Remove one (0.15mm) gasket from between the diaphragm and the body.  
NOTE: Removal of more than one gasket before checking output could cause the adjustment to be "hard on" and result in the motor stalling or over-heating and the diaphragm to crack.
3. Replace the flange and diaphragm and tighten the 6-6mm screws evenly.
4. Hold motor body. Switch on supply momentarily to ensure that motor is free running.
5. Check sound output is satisfactory and ensure that the motor over-runs slightly when the supply is switched off.
6. Repeat steps 1 - 5 if output is still low.

**RATING** NOT TO EXCEED 2 MINUTES.

#### BRUSH REPLACEMENT

The brushes should be removed and if shorter than 1/4" they should be replaced.

#### DIAPHRAGM REPLACEMENT

1. Separate front flange from body by removing the 6-6mm screws.
2. Examine diaphragm. If there is any sign of cracking it should be renewed.
3. Examine diaphragm stud. If stud has worn to a depth of more than 0.4mm, renew diaphragm.
4. To fit new diaphragm, build from the body, four(4) 0.3mm gaskets, two(2) 0.15mm gaskets, the new diaphragm assembly (stud towards the rotor) two(2) 0.3mm gaskets, then proceed as ADJUSTMENT step 3 - 5.

#### SPARES

ITEM	QUANTITY	PART NO
Diaphragm Assembly	1	EK 79 ) Supplied with gaskets
Diaphragm Gasket (0.3mm)	6	A1-72/5
Diaphragm Gasket (0.15mm)	2	A1-72/40
Brush (48/250V)	2	E 537 S
Brush (6-48V)	2	E 550 M
Armature Assembly (Please state voltage reqd)	1	A1-72/31/Stock No.
Field Core & Coil Assembly (Please state voltage)	1	A1-72/7/Stock No.
Serrated Rotor	1	A1-72-17

## SYREX LC (A.C. VERSION)

### INSTALLATION INSTRUCTIONS

#### GENERAL

The Syrex LC is an electronic audible warning device, which offers 3 different types of tone electronically generated, and amplified into a transducer which emits through the re-entrant enclosure.

#### INSTALLATION

The four posi-drive screws located in the recessed holes 'A' on the front must be unscrewed.

The back half of the enclosure may then be secured to a flat surface in any position (except pointing up in outdoor application) via the fixing points as shown in Fig.1.

Cable entry via any of the two side knockouts 'B' using a suitable gland or bush.

**NOTE:-** Glands/locknuts etc. may not be used on the inside rear knockout 'D', as they may cause damage when the sounder is re-assembled.

Adequate sized cable should be used and connected as shown in Fig.2.

#### STONE SELECTION

Three different tones or notes may be selected via terminal block links as supplied, see Fig.2.

#### VOLUME AND FREQUENCY CONTROL

Volume and frequency are pre-set, to adjust volume turn VR2 to level required, adjust VR1 to either increase or decrease the audio frequency.

#### REMOTE SWITCHING

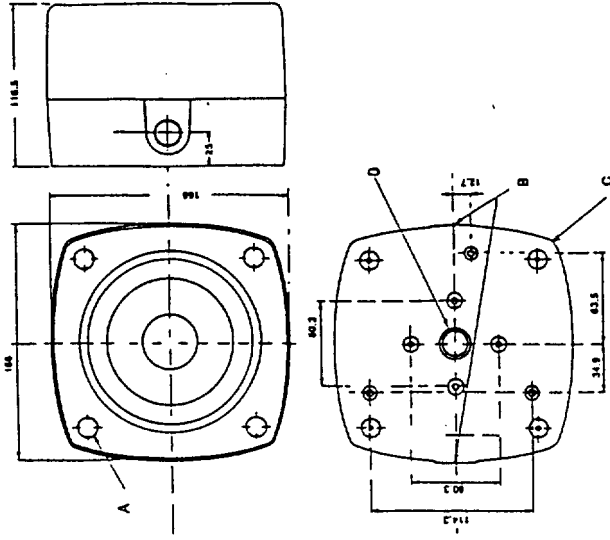
For two stage alarms the sounders may be switched from continuous to warble or continuous to pip as shown in Fig.2.

After the internal connections are complete secure the front of the signal with the four fixing screws ensuring the four sides of the enclosure mate correctly.

Push in the security plugs provided until flush with the surface.

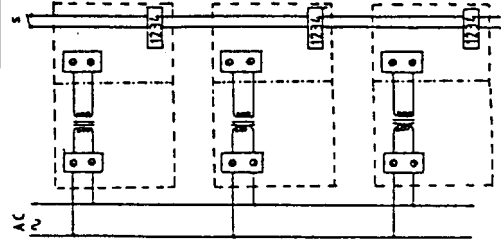
Overall dimensions and fixing details:

Fig.1



- A - Push in security buttons
- B - 3 Recessed holes with 'push-out' for wiring connections (clearance for 20mm conduit)
- C - Inside View of cover
- D - 1 Recessed hole with 'push-out' for rear wiring connections

CONNECTION DETAILS Fig.2



CONNECT AC SUPPLY TO BLOCK IN BASE.

SOUND	LINK
continuous	no link
warble	3 - 4
pip	3 - 4 & 1 - 2

#### REMOTE SWITCHING

drawing shows (3x) units, connections for switching, continuous - warble, 1 to switch continuous - pip, connect as shown & link 1 - 2.

S open = continuous  
S closed = other sound

SYNCHRONISATION  
Not available.

# INSTALLATION & MAINTENANCE INSTRUCTIONS

## SYREX SHRIEKER .... 12/24V DC (SELECTABLE)

### DESCRIPTION

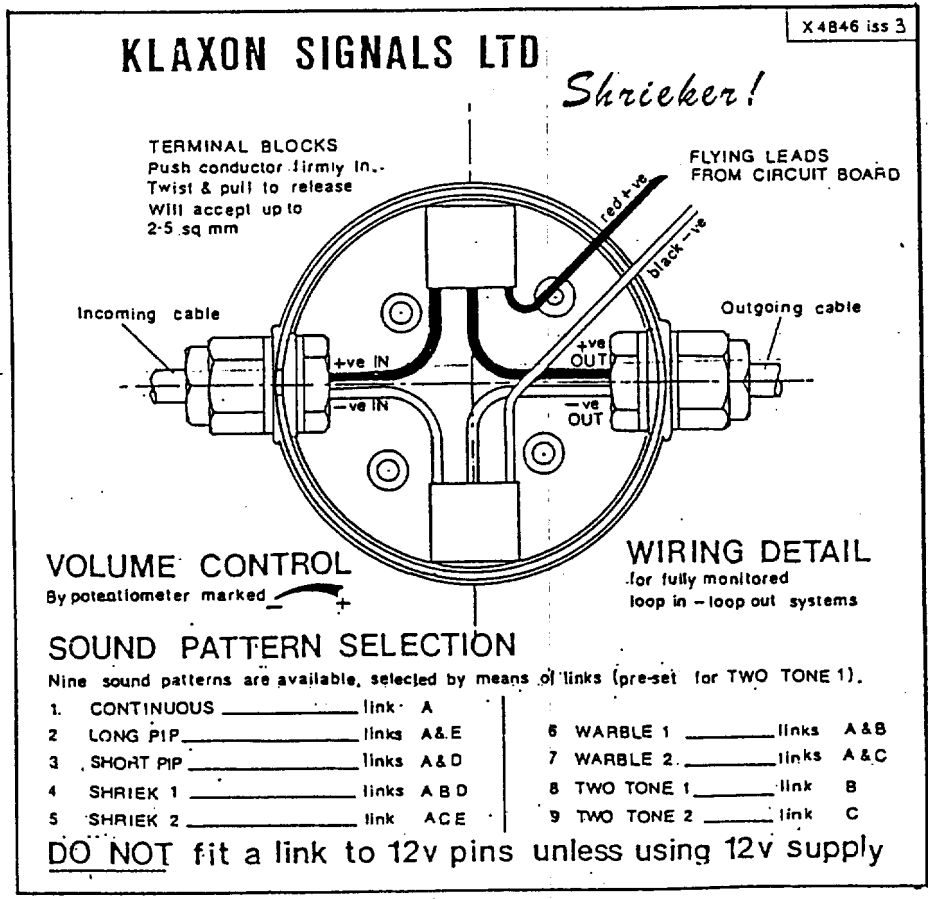
The SYREX SHRIEKER is a high output electronic sounder with nine different notes and an input current of only 8mA. This unit is primarily intended for use in Fire Alarm and Security Systems particularly where long cable runs are used and low current draw required. Unique Dual termination located in the base allow for cable in and cable out up to a size of 2.5mm<sup>2</sup> proving considerably quicker to install than conventional screw terminals.

### INSTALLATION

The SYREX SHRIEKER leaves the works pre-set for 24v and MODE 8 Note (Two Tone 1) at maximum output.

Alternative voltage and notes may be selected by fitting the links supplied (3) at the appropriate positions on the PCB. A potentiometer is also mounted on the PCB which allows the signal volume to be reduced locally when required. Three conduit entry knock-outs are provided (20mm clearance) 2 in sides, 1 in base.

A choice of 3 pairs of fixing holes are provided (4.5mm diameter) to suit British Standard and Electrical Installation fittings, including BESA and single gang type boxes.





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