



# AIR WHISTLES

## RS TYPE, SINGLE TONE AND CHIME TONE

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# INTRODUCTION

This Installation, Operation, and Maintenance Manual is intended to be as complete and up to date as possible. It covers installation, operation, and maintenance procedures for Leslie Controls, Inc. RS TYPE AIR WHISTLES control module. Leslie reserves right to update this manual and other product information concerning installation, operation, and/or maintenance, at any time and without obligation to notify product owners of such changes.

Leslie is not responsible for inaccuracies in specifications, procedures and/or content of other product literature, supplied by manufacturers of components used with Leslie Controls, Inc. RS TYPE AIR WHISTLES Leslie strives to use only highest quality components; however, LESLIE has no direct control over their manufacture, or their consistent quality.

Leslie is not responsible for injury to personnel or product damage due to improper installation, operation, and/or maintenance Leslie Controls, Inc. Air Whistles. All installation, operation, and maintenance procedures should only be performed by trained/certified personnel. All personnel performing these procedures should completely and carefully read and understand all supplied materials before attempting procedures. All personnel should pay strict attention to all Notes, Cautions, and Warnings that appear within procedures detailed in this manual.

Leslie welcomes user input as to suggestions for product or manual improvement.

## Contact Information

For information concerning warranties, or for questions pertaining to installation,

Operation or maintenance of LESLIE products, contact:

LESLIE CONTROLS INC.  
12501 Telecom Drive  
Tampa, FL 33637

USA Phone: (813) 978-1000

USA Fax: (813) 978-0984

[www.LESLIECONTROLS.com](http://www.LESLIECONTROLS.com)

To order replacement parts, contact LESLIE CONTROLS at address listed above, or call toll free:

USA/Canada/Caribbean Phone: (800) 323-8366

Note: Please include model and serial number of unit for which parts are being ordered. If ordering by phone, please have this information readily available.

## GENERAL NOTES AND WARNINGS

### Notes:

- If questions are not answered by this manual, or if specific installation, operation, and/or maintenance procedures are not clearly understood, contact Leslie Controls, Inc. for clarification before proceeding.
- If unit is damaged during installation, operation, or maintenance, complete following steps:
  1. Turn off and lock out pneumatic supply to unit in an approved manner.
  2. Turn off all incoming valves.
  3. Contact in-house maintenance personnel or Leslie Controls, Inc. for instructions.

*Note: Throughout this manual, warnings will be denoted by BOXES*

### **CAUTION!**

Piping system must be adequately designed and supported to prevent extraordinary loads to pressure equipment.

All documentation for each major component has been included with unit. It is strongly recommended that each document be reviewed before attempting any installation, operation, or maintenance procedures.

Documentation for each major component may also contain warnings and cautions identified by manufacturer of each component. These warnings and cautions may be specific for particular component, and therefore not covered in this general Installation, Operation, and Maintenance Manual. They should also be carefully reviewed before attempting installation, operation, or maintenance procedures.

# INSTALLATION

SEE FIGURE 1 FOR ITEM NUMBERS

## MOUNTING FLANGES

Mounting flanges are identical for all whistles, single or chime tone

Flanges are fitted with four 9/16" holes, equally spaced and straddling center line on a 3" bolt circle. Center tapping is provided for 1/2" (40 schedule) air supply pipe.

When mounting whistle on appropriate companion flange or bracket. (Where flanges are used, insert soft gasket between flanges). Bolt securely in place with 10 ft-lbs torque.

Connect corrosion resistant air supply line to companion flange or directly into whistle where whistle is mounted on a bracket. Fit air line with appropriate stop valve, air strainer, and operation valve.

# MAINTENANCE

## CLEANING DIAPHRAGM AND DIAPHRAGM HOUSING

To inspect diaphragm housing (6) and diaphragm (3), remove back cover bolts (2) and take off back cover (1). Remove diaphragm from back cover.

Clean all parts thoroughly. After nozzle is clean, wipe on a very thin film of oil to lubricate.

### WARNING!

Orifice Dowel Pin is permanently fastened to whistle and should not be removed unless replacement is necessary. If replacement is necessary, consult proper drawing for reference number of correct Orifice Dowel Pin.

Whenever a back cover is removed, it is good practice to blow out the air lines supplying the whistle and blow out the orifice dowel pin area.

### Reassembly

Place back cover with diaphragm on diaphragm housing (6). Replace bolts (2) and tighten bolts alternately.

### NOTE!

When reassembling whistles to bases or back covers to housings. Be sure that all joints are evenly with the proper tightening sequence (see Fig 5) so that air leakage will not occur.

## DISASSEMBLING POWER CHAMBER AND HORN

To disassemble power chamber and horn from base (11), remove capscrews (9) and lockwashers (8) and slide horn and power chamber from base. Take off gaskets (7). To dismantle power chamber follow instructions above.

### Reassembly

Slide horn and power chamber into base (11). Tighten capscrews (9) in sequence (see Fig 1).

## REVERSING WHISTLE

To reverse a whistle, dismantle as described in "DISASSEMBLING POWER CHAMBER AND HORN" section and reassemble in the opposite position. In all cases, be sure that sufficient clearance exists between horn bells before tightening in reverse position.

## REPLACING ORIFICE DOWEL PIN

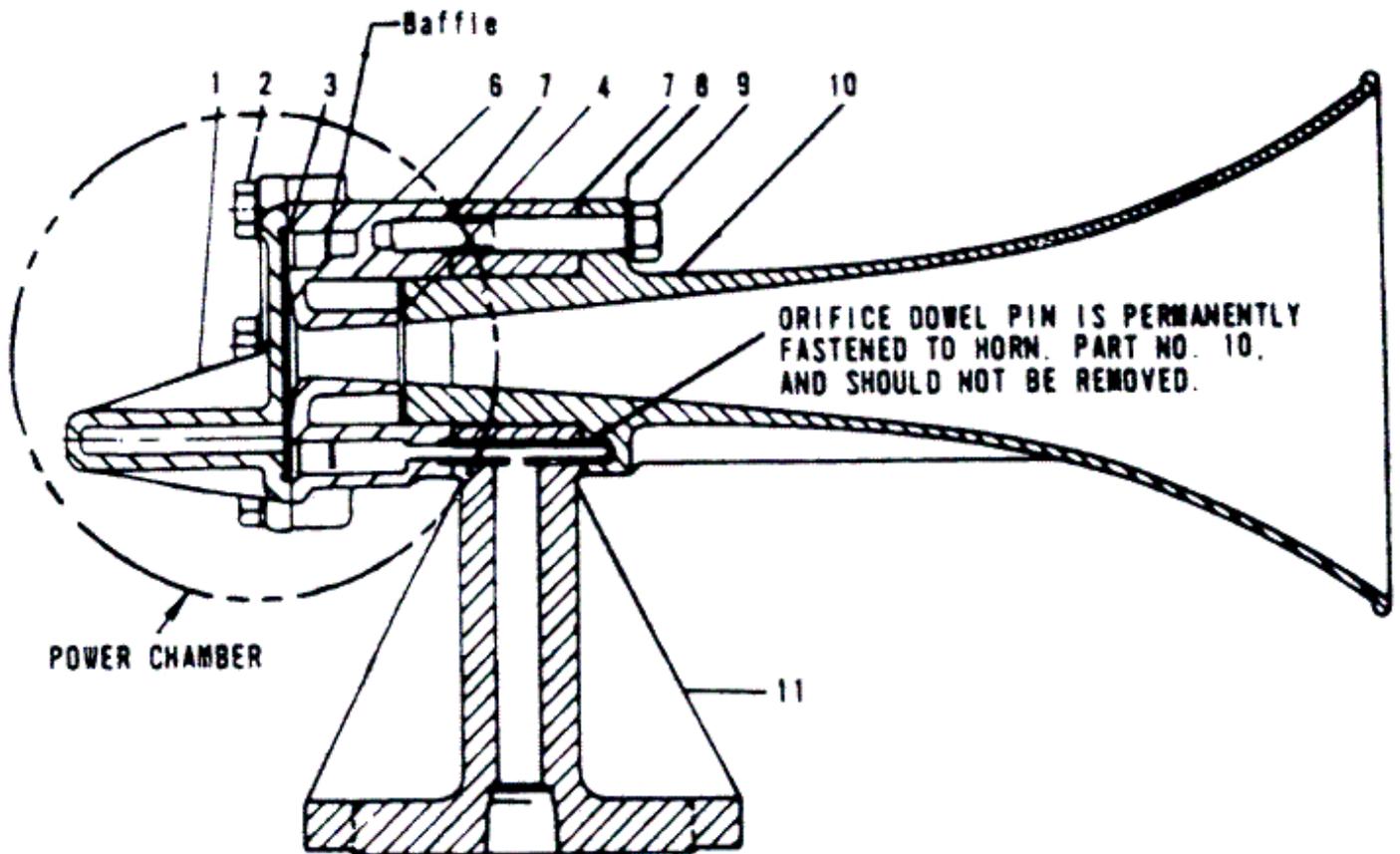
If is ever necessary to replace an orifice dowel pin, insert it into horn with orifice facing outward and in line with rib of horn. Prick punch horn metal around orifice dowel pin to hold it in place.

### CAUTION!

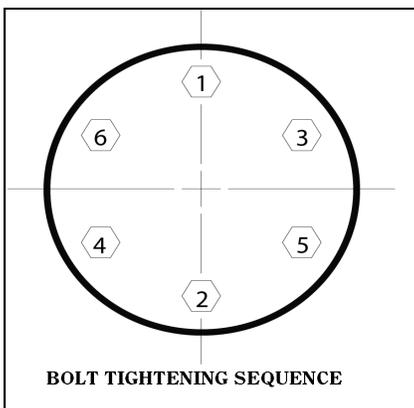
The piping system must be adequately designed and supported to prevent extraordinary loads to the pressure equipment.

### WARNING!

Injury or death can occur due to failure to completely isolate valve from all sources of pressure before beginning disassembly. Do not proceed until whistle has been completely isolated from the process and vented to atmosphere.



**Figure 1 - Parts List**



Item no	Description	Notes
1	Back Cover Complete	
2	Screw, Taptight	5/16-18, Torque = 3.8 ft-lb
3	Diaphragm Complete	
4	Gasket	
6	Diaphragm Housing Complete	
7	Gasket	
8	Lockwasher	
9	Cap Screw	3/8-16, Torque = 6.8 ft-lb
10	Horn Complete	
11	Horn Base	

Keep area around  
whistle clear. Do  
not face to wall

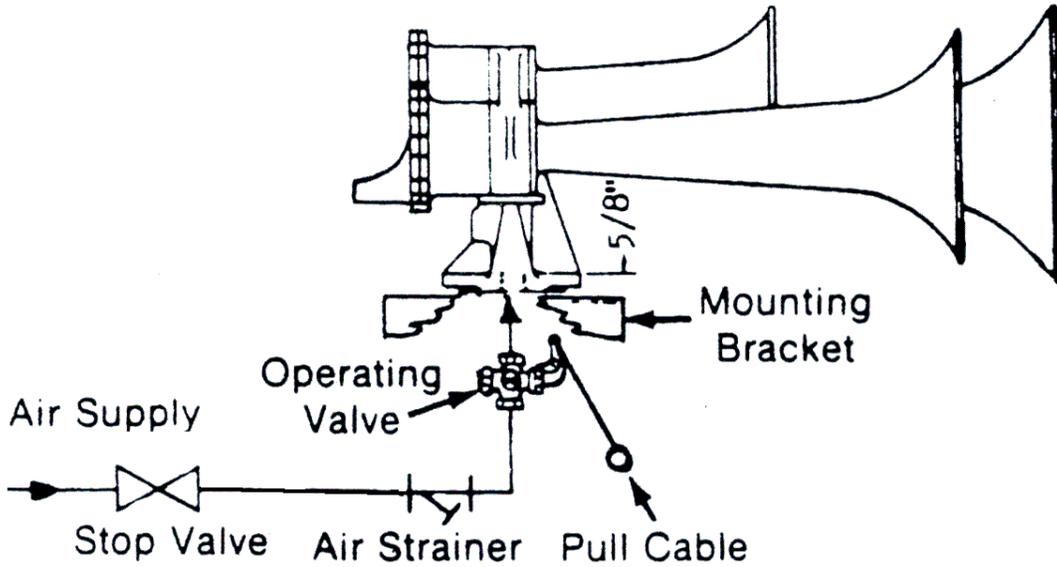


Figure 2 - General Application

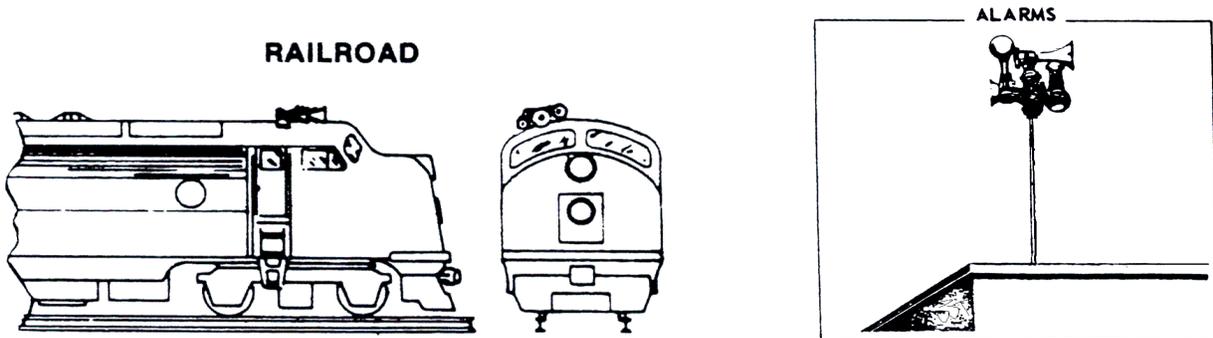


Figure 3 - General Application

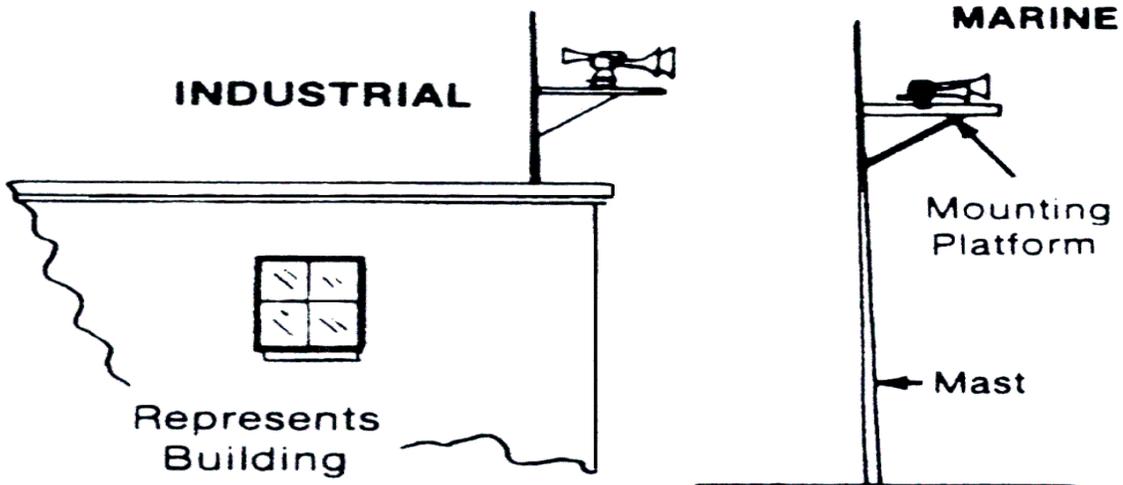


Figure 4 - General Application

# TROUBLESHOOTING

<b>Problem</b>	<b>Possible Cause</b>
No sound	<ol style="list-style-type: none"><li>1. No air supply</li><li>2. Defective Diaphragm (3)</li><li>3. Plugged strainer</li><li>4. Worn diaphragm (3)</li><li>5. Dirt in Horn Chambers</li></ol>
Weak Sound	<ol style="list-style-type: none"><li>1. Low air pressure</li><li>2. Clogged air passages</li><li>3. Loose bolts (2)</li><li>4. Worn Diaphragm (3)</li></ol>
Incorrect Sound	<ol style="list-style-type: none"><li>1. Worn Diaphragm (3)</li><li>2. Dented or bent horn (10)</li><li>3. Dirt in Power Chamber, Resonance Chamber (1)</li></ol>



*It is solely responsibility of system designer and user to select products and materials suitable for their specific application requirements and to ensure proper installation, operation and maintenance of these products. Assistance shall be afforded with selection of materials based on technical information supplied to Leslie Controls Inc.; however, system designer and user retain final responsibility. Designer should consider applicable Codes, material compatibility, product ratings and application details in selection and application. Improper selection, application or use of products described herein can cause personal injury or property damage. If designer or user intends to use product for an application or use other than originally specified, he must reconfirm tat selection is suitable for new operating conditions. Life expectancy for this product defaults to warranty period of sales contract.*