



M.I. 9642



MAINTENANCE INSTRUCTION

MODERNIZATION RECOMMENDATION

MODIFICATION OF LESLIE "S" MODEL HORN TO "RS" MODEL

PURPOSE: To reduce maintenance and provide better tolerance of contaminants in the air. The horn should also be less likely to freeze up during winter operation.

APPLICATION: All Leslie "S" type air horns.

DISCUSSION: During the last several years railroads have had increasing problems with air horns due to contaminants and moisture in the compressed air system. These tend to reduce air horn efficiency or make them completely inoperable. The condition is aggravated during cold weather when moisture accumulates in the air horn chamber and freezes.

The power chamber of the old style "S" Model horn has been redesigned to reduce the effect that contaminants have on the horn and also to reduce the possibility of freezing the diaphragm. The part number of the new "RS" Model horn will be the same as the "S" Model; however, the new model can be readily distinguished from the previous model horn by the back cover, which has a pyramid like projection extending 2-3/8" from an otherwise flat back cover.

To retrofit the "S" Model horn to an "RS" Model, obtain new power chamber 9520104 and two gaskets 8211999 for each horn bell to be modified.

**NEW MATERIAL
REQUIRED:**

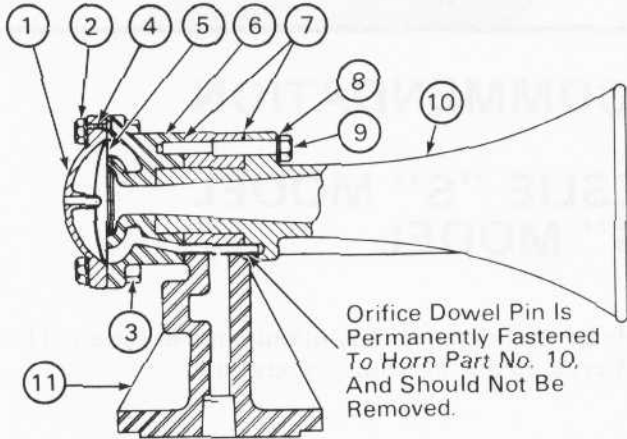
The following material is required to retrofit one 3-chime horn:

<u>QUANTITY</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>
3	9520104	Power Chamber
6	8211999	Gasket

The approximate price of the material is \$75.00. The price is for job estimating purposes only. Material will be billed at prices in effect at the time of shipment.

PROCEDURE

1. Remove bolts (9) and lockwashers (8) and retain for reuse.
2. Replace "S" type power chamber, (1 thru 6, Fig. 1) with an "RS" type power chamber 9520104, Fig. 2, using gaskets 8211999.
3. Coat bolts removed from original power assembly with thread locking compound 9505662. This will help prevent loose bolts due to high frequency vibrations of the horn.
4. Reapply the lockwashers and bolts.

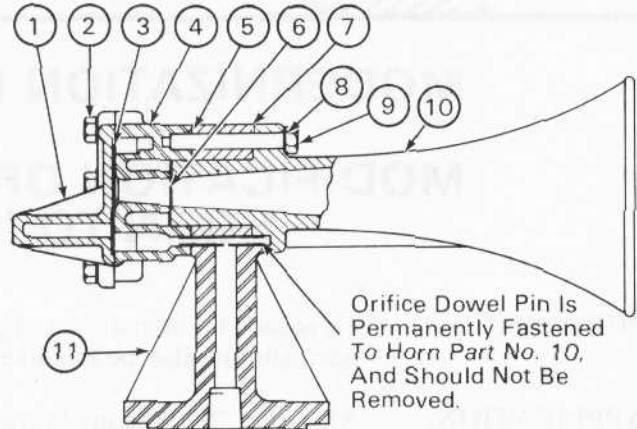


Orifice Dowel Pin Is Permanently Fastened To Horn Part No. 10, And Should Not Be Removed.

- | | |
|-------------------------|-------------------|
| 1. Back Cover | 7. Gasket 8211999 |
| 2. Bolt | 8. Lockwasher |
| 3. Nut | 9. Cap Screw |
| 4. Diaphragm Ring Screw | 10. Horn Bell |
| 5. Diaphragm Set | 11. Base |
| 6. Diaphragm Housing | |

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Fig.1 - Old Style "S" Model Horn



Orifice Dowel Pin Is Permanently Fastened To Horn Part No. 10, And Should Not Be Removed.

- | | |
|----------------------|-------------------|
| 1. Back Cover | 7. Gasket 8211999 |
| 2. Taptight Screw | 8. Lockwasher |
| 3. Diaphragm | 9. Cap Screw |
| 4. Diaphragm Housing | 10. Horn Bell |
| 5. Gasket 8211999 | 11. Base |
| 6. Gasket | |

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Fig.2 - New Style "RS" Model Horn