



**Lift & Escalator Industry Association**

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E-mail: enquiries@leia.co.uk

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27<sup>th</sup> March 2007

**To: All Members**

**cc: The Quality and Technical Committee (Code No. 718)  
The Maintenance Committee**

Dear Member,

**SAFETY BULLETIN : OTIS**

Please find attached Safety Bulletin from Otis in connection with the failure of an Evans machine brake.

I trust that you will find this bulletin self-explanatory and be guided accordingly.

Yours faithfully

Robert N Lee  
Director, Technical Services

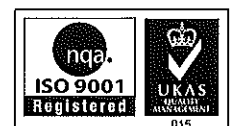


EMTA Awards Limited  
Approved Assessment Centre

**ELA** Member of the  
European Lift Association



Registered in England N° 3851206.  
Registered office as above.



Certificate N° 12368

# OTIS GROUP

POTENTIAL SAFETY HAZARD

UK Corrective Instruction

EVANS MACHINE BRAKE FAILURE

SET : A1

Nº : 78-07-01

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Date : 20/12/2006

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Prepared by

Joe Harris - Manager Field Service Support

Approved by

S McNally - Company Safety Manager

Approved by

M Fuller - Director of Field Operations Department

Approved by pp

G Smart - Financial Director

Approved by

D Michaud - Managing Director

### Technical Information Accessing System (Maximum 8 keywords)

1. EVANS

2. MACHINE

3. BRAKE

4. FAILURE

5.

6.

7.

8.

This CI must be completed on all listed units by 30 034 07

**Please enter Unit No's and Addresses of completed units and return a copy of this cover sheet to:**

Karl Headley  
Otis Ltd, 123 Abbey Lane  
Leicester  
LE4 5QX

Fax: +44 (0)116 261 2363

Unit Number	Site Address

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Source : R.C.A. No. SERVF 3137

#### 1. Problem:

Machine Brake Ineffective.

#### 2. Cause:

Machine Brake fails to set causing uncontrolled movement of the lift car.

On investigation it was found that due to repetitive use, the tip of the Brass Brake Plunger (Bullet) was worn causing mushrooming of the top. This increases the diameter allowing the plunger to jam the Brake in the open position. The condition was further compounded due to the base of the plunger being worn, which decreased the air gap between the core pieces allowing residual magnetism to add to the holding effect.

#### 3. Limitations:

Evans Brakes as attached illustration in Special Instructions

#### 4. Field Solution:

Strip the Brake Solenoid and closely examine the Brass Plunger (Bullet) and replace as necessary. The previous practice of dressing the Plunger when wear is detected must cease. In future when wear is detected the Plunger must be renewed as shown in Special Instructions

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#### 5. Material Required:

Brass Plunger (Bullet) Part No. 60.0197.00 from

Otis Ltd

Stores Dept

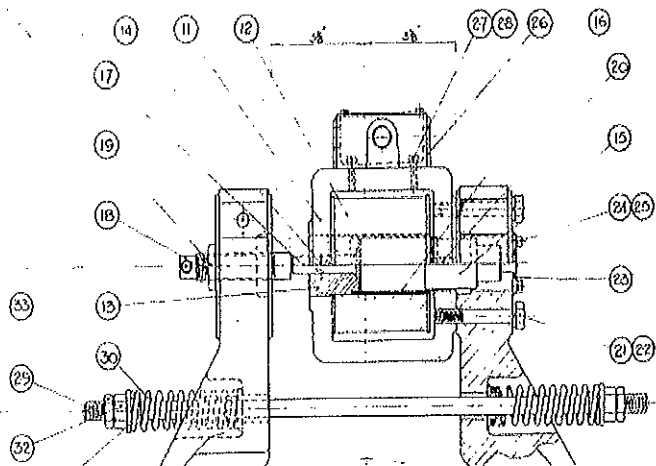
123 Abbey Lane

Leicester , LE4, 5QX

#### 6. Tools Required:

Engineers Hand kit

For identification of brake type see drawing below



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POTENTIAL SAFETY HAZARD

UK Corrective Instruction

EVANS MACHINE BRAKE FAILURE

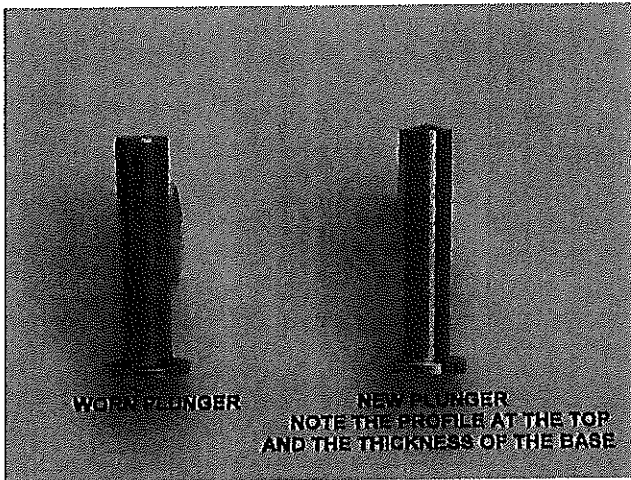
SET : A1

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## 7. Field Work Procedures



*The works must be conducted in compliance with a suitable and sufficient Risk Assessments from which a Safe Methods of Work is developed*

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