SM

SM079E – Check obstruction detection

Service instruction

Release date 2019-06-05

Part number n.a.

Part description n.a.

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File name SM079E_CheckObstructionDetection(IG4)(PS)(PS2)(RS)

Revision history

Revision	Date	By	Description
1.0	2019-06-05	R. Versteeg	Initial release.

Preface

The Quality System of Ventura Systems is accredited to EN ISO 9001:2015

Table of Contents

1 Introduction

1.1 Purpose

Consistency and accurate testing of the obstruction detection of the door system.

1.2 Scope

This work instruction shall be applied to all PS, PS2, RS and IG4 door systems installed with sensitive edges.

1.3 Definitions

No definitions.

1.4 Acronyms and Abbreviations

Abbreviation	Description
PS	Plug sliding door
RS	Rapid sliding door
IG	Inward gliding door

Table 1: Acronyms and abbreviations

1.5 References

1.5.1 External documents

Reference	Description	Date
IATF 16949:2016	Automotive quality management system standard	2016-10-01
ISO 9001:2015	ISO Standard for Quality Management Systems – Requirements.	2015-10-01
TS 155	Bus door safety systems	2017-11-23

Table 2: External documents

1.5.2 Ventura documents

Reference	Description	Date
MM	Ventura's Maintenance manual for the correct door system	N.A.

Table 3: Ventura documents

1.6 Tools

Tool	Description	revision	Date
Obstruction test tool (VC0950)	Rectangular block (L >300mm x H 60mm x W 30mm) This tool can be provided by Ventura Systems	1	

Table 4: Required tools

1.7 Material

No additional material needed.

2 Instruction

2.1 Documentation

Related to maintenance manual for RS, PS, PS2 and IG door systems.

2.2 Description

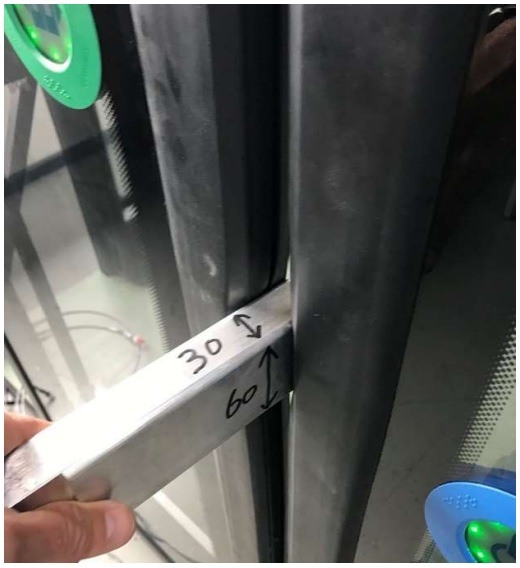
2.2.1 Reason

Various means of testing the obstruction detections has been observed. To ensure consistency this instruction is created.

2.2.2 Execution

The images used in this instruction are general images which provide insight in how to use the tool. The image can differ from the specific system in use. This makes no difference in using the tool.

1. Test the standard door system opening and closing cycle.
2. Check the air pressure following the maintenance manual of the specific system type. (normally 8 Bar)
3. Execute obstruction test
    a. Open the doors
    b. Place the obstruction test tool in the center of the doorway as shown to the right, at a height of 150 mm above the bus floor.



> **CAUTION!**
>
> If the obstruction detection fails, there is a risk of pinch point hazard.

    c. Close the door by using the drivers close button
    d. Check door closes until it touches the test tool, then fully re-opens.
4. Repeat the obstruction test at a height of:
    - 1200 mm above the bus floor
    - 150 mm from the top of the door.

If the door system fails the test, follow the the maintenance manual.