

Vehicle component : Leather cover for seats  
Applicant : Jackspeed Leather Special Manufacturer (M) Sdn. Bhd.,  
86000 Kluang, Johor, Malaysia

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### Technical Report No. 33SG0008-03

Vehicle component : Leather cover for seats with integrated side airbag

Applicant : JACKSPEED LEATHER SPECIAL  
MANUFACTURER (M) SDN. BHD.  
No. 21, Jalan 20 Taman Sri Kluang  
86000 Kluang, Johor, Malaysia

Testing laboratory : TÜV Rheinland Krafftahrt GmbH  
Technology Centre for Traffic Safety  
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Am Grauen Stein  
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## 1. General information about the seat cover

- 1.1. Technical description : The term "seat cover" means a cover for the backrest of a single seat with integrated side airbag. The OEM seat cover is removed completely, and the leather cover described below is put on the OEM upholstery instead. (OEM - original equipment manufacturer)
- 1.2. Seat cover : The seat cover is made of leather as surface finish material on foam plastic with cotton jersey on the reverse. Different colours of leather are available.
- The side sections of the cover may have openings for OEM seat adjusting levers or wheels.
- The side section of the cover facing towards the exterior of the vehicle bears the inscription "Airbag" (embroidery).
- 1.3. Predetermined breaking seam : Specification see annex 3. Length, shape and position of the seam correspond to the predetermined breaking seam of the OEM seat cover.
- 1.4. Affixing : The cover is cut accurate to size to fit tightly. In addition, the cover is wired up and braced just as the OEM cover is. If OEM seats are provided on their inside with so-called slip-bands or retaining bands at the predetermined breaking seam, also the leather covers will be provided with such bands. Also coverings, if any, of the rear seat structure are retained.

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1.5. Remarks on assembly : The assembly is done solely on the premises of the applicant or the applicant's agent. Once the assembly has been completed, a corresponding confirmation is to be issued and handed out to the owner of the vehicle. He/she is required to carry this confirmation with him/her together with this Technical Report and to produce it at the request of authorised persons.

1.6. Note : When used on seats provided with side airbags, the leather covers are classified as so-called safety components. It is therefore absolutely essential that the parameters (leather, thread, stitch width etc.) defined through the release test be subjected to regular and documented monitoring during the manufacturing process with regard to their dimensions and physical properties.

## 2. Testing

2.1. Basis of testing : Testing requirements placed by the Krafftahrt-Bundesamtes (Federal German Office for Motor Vehicle Traffic) for obtaining a General Type Approval (ABE) for protective covers for seats with integrated side airbag, issue date: 08 October 2007 in connection with draft of TR 35, issue date: 01 November 2001.

2.2. Inflation tests : The deployment performance of the side airbag in terms of time and space was tested at - 40°C, ambient temperature and + 85°C. A comparison with the OEM seat which did not reveal any differences out of tolerance. No parts of the leather cover came off when the seam burst or opened out. The cover satisfies the requirements of the above-mentioned basis of testing.

Note : Regarding the airbag seam the leather covered test samples were all marked with a positive conformation of the sewing system.

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2.3. Flammability test : An flammability test following 95/28/EC was carried out on the materials used. The cover satisfies the requirements of the basis of testing.

2.4. Vehicle-related tests : Installation tests with regard to exact fit, position and shape of the predetermined breaking seam were carried out for the vehicles listed in the range of application (see annex 2).

The cover satisfies the requirements of the above-mentioned basis of testing.

### 3. Annexes

- 1 Photos of the seat cover  
2 sheet
- 2 Range of application  
3 sheet

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#### 4. Conclusion

The cover described in this report and designed to be used on seats with side airbags satisfies the requirements of the basis of testing referred to in 2.

Provided the remarks and notes referred to in 1.5 and 1.6 are duly considered, the officially appointed expert has no objection, from a technical point of view, to the seat cover described being used in combination with the vehicles included in the allocation matrix shown in 3. Vehicles to be equipped with the seat cover shall not deviate from OEM production as far as the above-mentioned basis of testing is concerned.

In accordance with the instruction regarding §13 Abs.1 KfSachvG in reference to StVZO §19.2 (German national traffic regulation) this Technical Report shall not be used for components which are produced in great numbers and which need a official type approval. Consequently this Technical Report shall not be used at inspections concerning §19 StVZO in connections with §21 StVZO.

The Technical Report expires if the regulations relating to the conversion are amended or if the vehicles are modified, and the modifications are supposed to affect the conversion described.

The Technical Report comprises pages 0 to 4 including the annexes listed in 3. above. It shall not be reproduced except in full without the written approval of the Testing Centre.

Cologne, 29<sup>th</sup> February 2008  
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**TÜV RHEINLAND KRAFTFAHRT GMBH**  
Testing Laboratory Vehicles/Vehicle Components



Dipl.-Ing. Thomas Winand

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Annex 1

## Photos of the seat cover

VW Golf V:



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Annex 1

## Photos of the seat cover

Ford Mondeo:



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Annex 2

## Range of application

### 1. General

As regards vehicles with an EC type approval, the official type designations stated in the following allocation matrix may deviate from the type designations given in clause 3 of the vehicle registration papers.

### 2. Vehicle allocation matrix

<u>Manufacturer</u> Trade name	Type	Bar Code No. Airbag Module
<u>Mitsubishi (J)</u> 7107		
<u>Netherlands CAR/NL</u> 9644		
Pajero Shogun (3-doors)	SWB	L *101496703281*
Pajero Shogun (5-doors)	LWB	L *101496703281*

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Annex 2

## 2. Vehicle allocation matrix (cont.)

<u>Manufacturer</u> <u>Trade name</u>	<u>Type</u>	<u>Type approval No.</u>
<u>Chrysler (USA)</u> 1004		
<u>DaimlerChrysler(USA)</u> 1004		
PT Cruiser	PT	e11*98/14*0058
<u>Ford (D)</u> 0928		
Mondeo	B4Y B5Y BWY	e1*98/14*0154 e1*98/14*0155 e1*98/14*0156
Mondeo 2007	BA7	e1*2001/116*0249 *
<u>Honda Motor (J)</u> 7100		
<u>Honda (GB)</u> 2131		
<u>Honda (USA)</u> 1153		
Accord	CG7 CG8 CG9 CH1 CH2 CH5 CH6 CH7 CH8 CL3 CL4	e11*98/14*0103 e11*98/14*0104 e11*98/14*0105 e11*98/14*0106 e11*98/14*0116 e11*98/14*0117 e11*98/14*0118 e11*98/14*0119 e11*98/14*0120 e11*98/14*0165 e11*98/14*0166
<u>Mitsubishi (J)</u> 7107		
<u>Netherlands CAR/NL</u> 9644		
Galant	EA0	e4*95/54*0014
Outlander	COUW	e1*2001/116*0227
<u>Toyota Europe (B)</u> 5013		
Camry	V3	e6*98/14*0085

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**Annex 2**

## 2. Vehicle allocation matrix (cont.)

<b>Manufacturer</b>		<b>Type</b>	<b>Type approval No.</b>	
<b>Trade name</b>				
VW	0603			
Golf (V)		1K	e1*2001/116*0242	*
Golf (V) Plus		1KP	e1*2001/116*0304	*
Jetta, Golf (V) Kombi		1KM	e1*2001/116*0328	*
Passat		3B	e1*95/54*0043	
			e1*98/14D0043	
			e1*98/14*0043	
		3BG	e1*98/14*0157	
		3BL	e1*98/14PD0162	
		3BS	e1*98/14*0173	